



Logistics Civil Augmentation Program (LOGCAP)
CONTINGENCY SUPPORT PLAN

**ANNEX W (WORK BREAKDOWN STRUCTURE / PROJECT SCHEDULE) to
LOGCAP CONTINGENCY SUPPORT PLAN**

REFERENCES. See ANNEX N, Appendix 4.

TIME ZONE USED THROUGHOUT THE PLAN. Iraq.

TASK ORGANIZATION. See ANNEX A.

1. SITUATION. See Base PLAN.
2. MISSION. See Base PLAN.
3. EXECUTION. See Base PLAN.
4. SERVICE SUPPORT. See ANNEX I.
5. COMMAND AND SIGNAL.
 - a. Command. See Base Plan, ANNEX A.
 - b. Signal. See Base Plan, ANNEX H.

ACKNOWLEDGE:

(b)(6)

BRS PGM, LOGCAP

OFFICIAL:

(b)(6)

BRS D/PGM

APPENDIX 1 – WORK BREAKDOWN STRUCTURE (WBS)
APPENDIX 2 – PROJECT SCHEDULES

Declassified by OUSD Policy on 8 May 08

TYPICAL WORK BREAKDOWN STRUCTURE			
Description	Code	Level	
A: Overall Summary/Project & By Oilfield:			
Total Project Summary	---	1	
Kirkuk Oilfield Summary	01	2	
A: Engineering:			
Kirkuk Oilfield GOSP Engineering Summary	01-54E	3	
For GOSP BABA of Kirkuk Oilfield/Engineering Summary	01-54-01E	4	
For GOSP BABA Piping Engineering Summary	01-54-01E-PI	5	
For GOSP BABA Piping Work Packages	01-54-01E-PI-01	6	
B: Construction:			
Kirkuk Oilfield GOSP Construction Summary	01-54C	3	
For GOSP BABA of Kirkuk Oilfield/Construction Summary	01-54-01C	4	
For GOSP BABA Piping Construction Summary	01-54-01PSC#1	5	
For GOSP BABA Piping Construction workpackages	01-54-01PSC#1-P1	6	
C: Procurement:			
Kirkuk Oilfield GOSP Material Summary	01-54M	3	
For GOSP BABA of Kirkuk Oilfield/Materials Summary	01-54-01M	4	
For GOSP BABA Piping Material Summary	01-54-01Piping POS	5	
For GOSP BABA Piping Material Pos	Detail Pos	6	



Logistics Civil Augmentation Program (LOGCAP)
CONTINGENCY SUPPORT PLAN

**APPENDIX 2 (PROJECT SCHEDULES) to ANNEX W (WBS / PROJECT SCHEDULES)
to LOGCAP CONTINGENCY SUPPORT PLAN**

REFERENCES. See ANNEX N, Appendix 4.

TIME ZONE USED THROUGHOUT THE PLAN. Iraq.

TASK ORGANIZATION. See ANNEX A.

1. SITUATION. See Base PLAN.

a. Assumptions.

- 1) Three separate schedules are prepared for the following cases:
 - a) Best case where existing plants are refurbished.
 - b) Most probable case for large, medium & small GOSP sizes.
 - c) Worst case where all wellheads and plants have been irreparably damaged.
- 2) The schedules are based on availability of oilfields as noted below:
 - a) Southern Iraq Oilfields: South & North Rumaliah, Az Zubayr & Al Luhays oilfields available within one week from NTP.
 - b) Northern Iraq Oilfields after 11 weeks from NTP.
 - c) Remaining Southern Oilfields after 15 weeks from NTP.
 - d) East Baghdad Oilfield after 18 weeks from NTP.
- 3) Soils data for various sites is available from the site files.
- 4) For the best case scenario, no damage is present and plants can be started with HCN plant operating staff to the current capacity levels. It is further assumed that the plant can be refurbished to increase capacity to the target level of 3.1 MM BPD.
- 5) On most probable case, it is assumed that:
 - a) No long lead equipment items are damaged or destroyed.
 - b) No piling is damaged and no new piles are required.
- 6) On worst case scenario, it is assumed that:
 - a) Sites are clear and no site work is required for the plant. Minimum fill or cut is required to level the site.
 - b) Unit price subcontractors and blanket purchase orders will be issued to vendors.
 - c) Three typical GOSP designs will be performed and adopted for the specific requirements on long lead equipment items. Vendors will be selected during the early EPC planning initiated 30 days prior to the receipt of NTP. (NTP-30 days). Vendors will be released for preparing vendor drawings only.
 - d) There are no piling requirements.
 - e) For surface blowout wellfires, the deployment of fire teams is divided by North and South oilfields as follows:



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- (1) Southern Fields, assuming seven days per well:
 - (a) Five fire teams for first 11 weeks, until Northern fields are available at week eleven based on information provided, then three teams for next nine weeks.
 - (b) Five fire teams for the following three months
 - (c) 15 fire teams for the duration of the fires.
- (2) Northern Fields, assuming 14 days per well:
 - (a) Two fire team for nine weeks, after fields become available at week 11.
 - (b) Five fire teams for the following three months
 - (c) 10 fire teams for the duration of the fires.
- f) For underground blowouts, it is assumed that there are 18 rigs available to work 1.5 months per well in the southern fields and another 18 rigs available to work three months per well in the northern fields.
- g) Wellhead repair will take five days per well.
- h) Workover repair will take 10 days per well, with six rigs working in the North and 12 rigs operating in the South.
- 7) Information necessary to execute the project will be declassified shortly after NTP.
- 8) All sites have been cleared of the following:
 - a) Landmines or unexploded ordnance.
 - b) War materials and disabled vehicles.
 - c) Chemical and biological hazards.
- 9) All destroyed or facilities which are not planned for repairs will be abandoned in place. No remedial or removal work is included in the schedules.
- 10) No permits are required from local agencies having jurisdiction over the land and the area where the work is to be carried out.
- 11) No hindrances or delays associated with Customs clearance.
- 12) No delay in getting visas or work permits for TCN labor and ex pats.
- 13) No delay in approving Satellite dishes installation for communication. Also no approval required for handheld radios, mobile phones and other communication means at various sites.
- 14) Critical equipment and materials will be staged in allied nations close to Iraq prior to the commencement of the field work.
- 15) Existing roadways and bridges are capable of handling the heavy equipment delivery to site.
- 16) Advance team and early assessment team's identification and processing will be initiated 30 days before the receipt of NTP. (NTP-30)
- 17) The schedules are based on 12 hours per day for seven days per week for construction work and 10 hours per day for six days per week for engineering and procurement work in Houston.



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2. **MISSION.** See Base PLAN.
3. **EXECUTION.** See Base PLAN
4. **SERVICE SUPPORT.** See ANNEX I.
5. **COMMAND AND SIGNAL.** See Base Plan, ANNEX A, and ANNEX H.

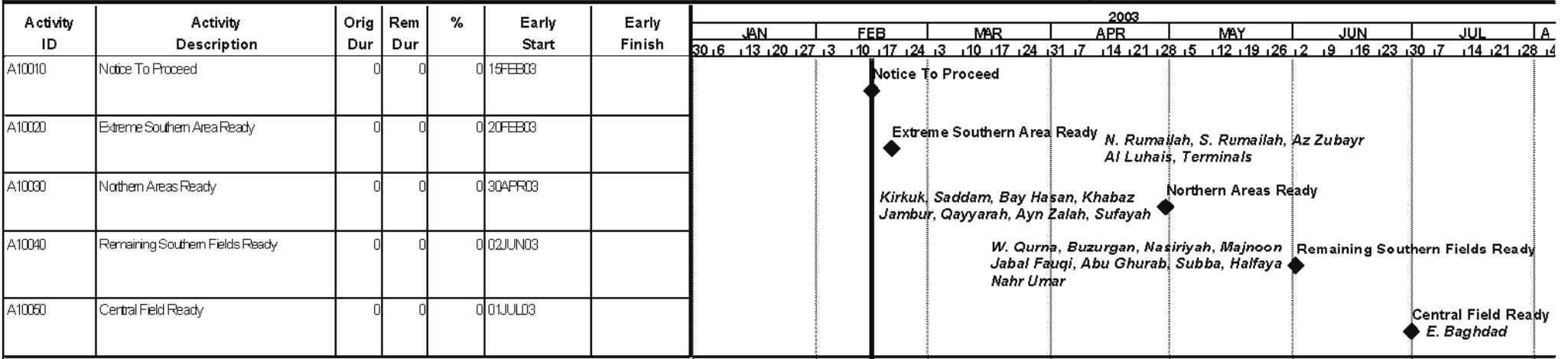
ACKNOWLEDGE:

(b)(6)

BRS PGM, LOGCAP

OFFICIAL:

(b)(6) BRS D/PGM



-  Early Bar
-  Progress Bar
-  Critical Activity

Worst Case Field Availability

Date	Revision	Checked	Approved

Activity ID	Activity Description	Orig Dur	Early Start	Months					
				1	2	3	4	5	6
A10010	Notice To Proceed	0	01FEB03	▶ Notice To Proceed					
A10020	S. Rumalah 400K	0	01MAR03	◆ S. Rumalah 400K					
A10030	N. Rumalah 500K	0	01MAR03	◆ N. Rumalah 500K					
A10040	Az Zubair 200K	0	01MAR03	◆ Az Zubair 200K					
A10050	Luhais 30K	0	01MAR03	◆ Luhais 30K					
A10210	W. Qurna 120K	0	01MAR03	◆ W. Qurna 120K					
A10250	1250K bbls/day Available	0	01MAR03	▣ 1250K bbls/day Available					
A10150	Buzurgan 30K	0	15MAR03	◆ Buzurgan 30K					
A10160	Nasiriyah 30K	0	15MAR03	◆ Nasiriyah 30K					
A10170	Majnoon 25K	0	15MAR03	◆ Majnoon 25K					
A10180	Subba 10K	0	15MAR03	◆ Subba 10K					
A10190	Halfaya 10K	0	15MAR03	◆ Halfaya 10K					
A10200	Nahr Umar 10K	0	15MAR03	◆ Nahr Umar 10K					
A10220	Jabal Fauq 20K	0	15MAR03	◆ Jabal Fauqi 20K					
A10230	Abu Ghurab 15K	0	15MAR03	◆ Abu Ghurab 15K					
A10260	1400K bbls/day Available	0	15MAR03	▣ 1400K bbls/day Available					
A10070	Bay Hasan 80K	0	01APR03	◆ Bay Hasan 80K					
A10080	Saddam 40K	0	01APR03	◆ Saddam 40K					
A10090	Kirkuk 500K	0	01APR03	◆ Kirkuk 500K					
A10100	Khabaz 20K	0	01APR03	◆ Khabaz 20K					
A10110	Jam bur 10K	0	01APR03	◆ Jam bur 10K					
A10120	Qayyarah 10K	0	01APR03	◆ Qayyarah 10K					
A10130	Ayn Zalah 10K	0	01APR03	◆ Ayn Zalah 10K					
A10140	Sufayah 7K	0	01APR03	◆ Sufayah 7K					
A10240	E. Baghdad 20K	0	01APR03	◆ E. Baghdad 20K					
A10270	2097K bbls/day Available	0	01APR03	▣ 2097K bbls/day Available					

Start Date 01FEB03
 Finish Date
 Data Date 01FEB03
 Run Date 22JAN03 07:39

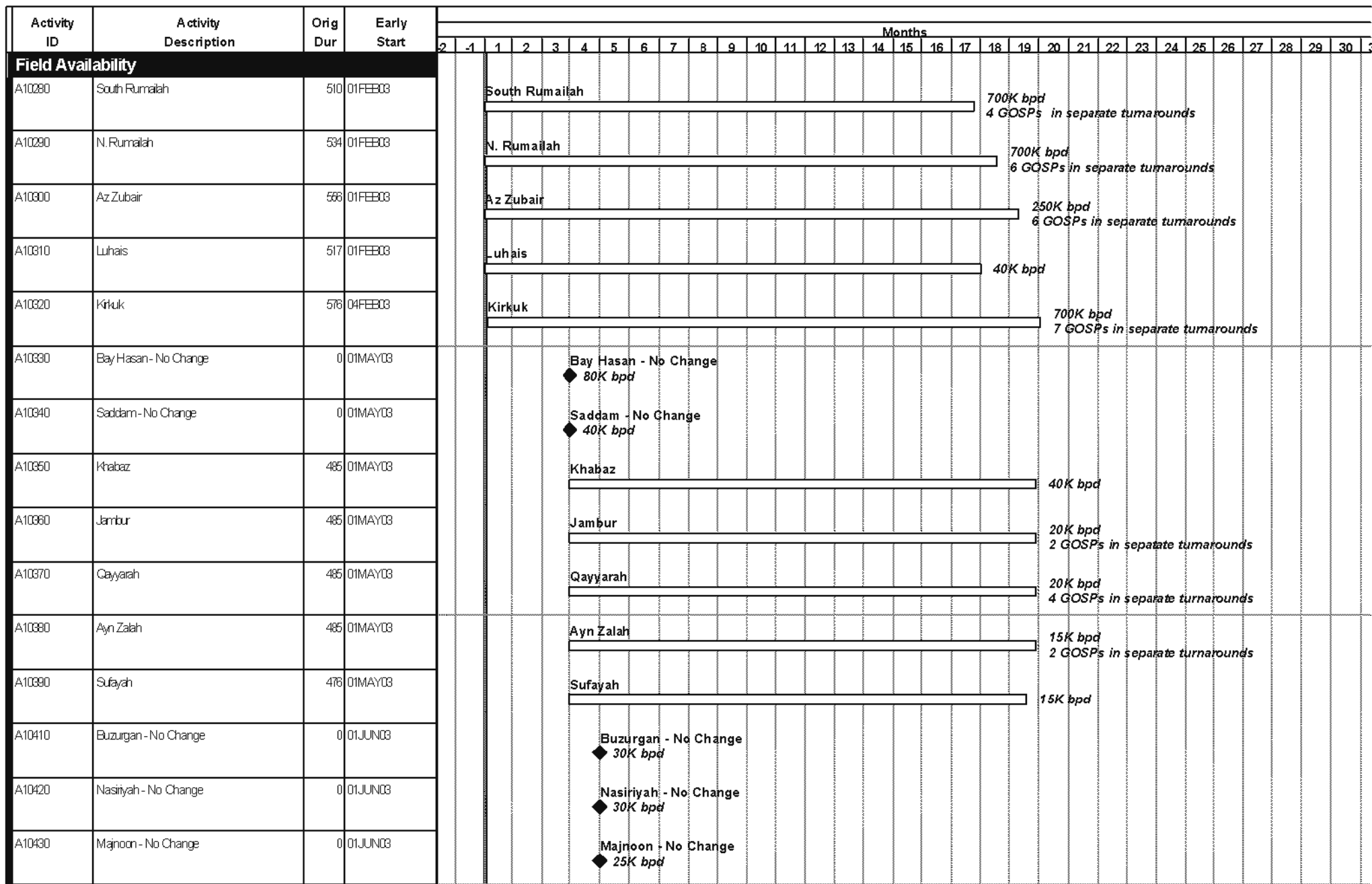
Early Bar
 Progress Bar
 Critical Activity

RUS5

Best Case
 No Damage
 2.0MM BPD]

Sheet 1 of 1

Date	Revision	Checked	Approved



Start Date 01FEB03
 Finish Date
 Data Date 01FEB03
 Run Date 22JAN03 14:21

Early Bar
 Progress Bar
 Critical Activity

RUS4

Best Case
 No Damage
 Refurbish to 3.1MM BPD]

Sheet 1 of 2

Date	Revision	Checked	Approved

Activity ID	Activity Description	Orig Dur	Early Start	Months																																				
				2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
A10460	Subba - No Change	0	01JUN03																																					
A10470	Halfaya - No Change	0	01JUN03																																					
A10480	Nahr Umar - No Change	0	01JUN03																																					
A10400	W. Qurna	468	03MAY03																																					
A10440	Jabal Fauqi	468	01MAY03																																					
A10450	Abu Ghurab	460	03MAY03																																					
A10490	E. Baghdad	471	18MAY03																																					

Subba - No Change
◆ 10K bpd

Halfaya - No Change
◆ 10K bpd

Nahr Umar - No Change
◆ 10K bpd

W. Qurna
250K bpd
3 GOSPs in separate turnarounds

Jabal Fauqi
40K bpd
2 GOSPs in separate turnarounds

Abu Ghurab
30K bpd
2 GOSPs in separate turnarounds

E. Baghdad
30K bpd

Start Date 01FEB03
 Finish Date
 Data Date 01FEB03
 Run Date 22JAN03 14:21

Early Bar
 Progress Bar
 Critical Activity

RUS4

Best Case
No Damage
Refurbish to 3.1MM BPD]

Sheet 2 of 2

Date	Revision	Checked	Approved

Secret

Activity ID	Activity Description	Orig Dur	Early Start	Months																																			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	3				
South Rumailah (700K bpd)																																							
A10030	GOSP 3R	0	14APR03																																				
A10040	Janubia 4J	0	29APR03																																				
A10020	Shamiya 2S	0	14SEP04																																				
A10010	Qurainat 1Q	0	13NOV04																																				
North Rumailah (700K bpd)																																							
A10050	N. Central GOSP	0	10MAR03																																				
A10070	GOSP 4	0	07APR03																																				
A10090	N. Shamiya	0	04MAY03																																				
A10060	GOSP 2 / Janubia	0	01AUG04																																				
A10080	GOSP 5	0	10OCT04																																				
Az Zubair (250K bpd)																																							
A10110	GOSP 1	0	28MAR03																																				
A10130	GOSP 3	0	25APR03																																				
A10140	GOSP 4	0	08MAY03																																				
A10150	Hammar	0	23MAY03																																				
A10120	GOSP 2	0	24AUG04																																				
A10100	Central GOSP	0	29AUG04																																				
West Quma (250K bpd)																																							
A10180	CGS-8	0	11JUN03																																				

Secret

	Early Bar
	Progress Bar
	Critical Activity

RUS6

Sheet 1 of 4

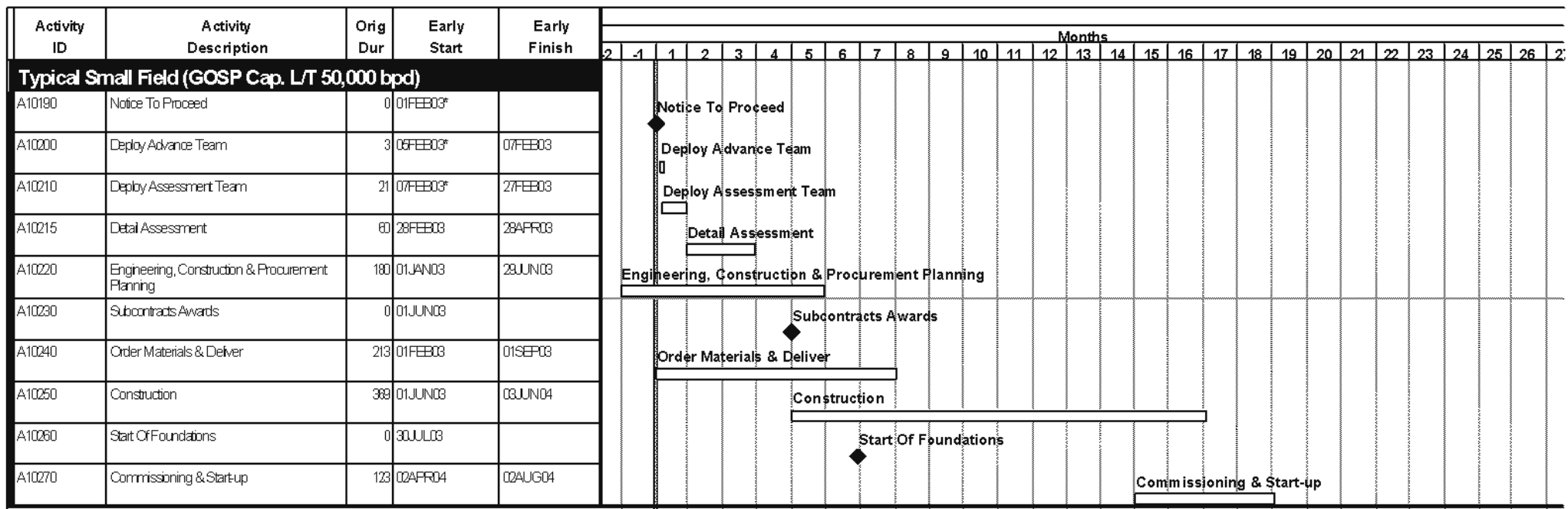
GOSP Availability
Most Probable Case Schedule

Date	Revision	Checked	Approved

Activity ID	Activity Description	Orig Dur	Early Start	Months																																		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
Abu Ghurab (30K bpd)																																						
A10320	South	0	30JUL03																																			
A10310	North	0	10DEC04																																			

South
◆ 15K bbls/day

North
◆ 15K bbls/day

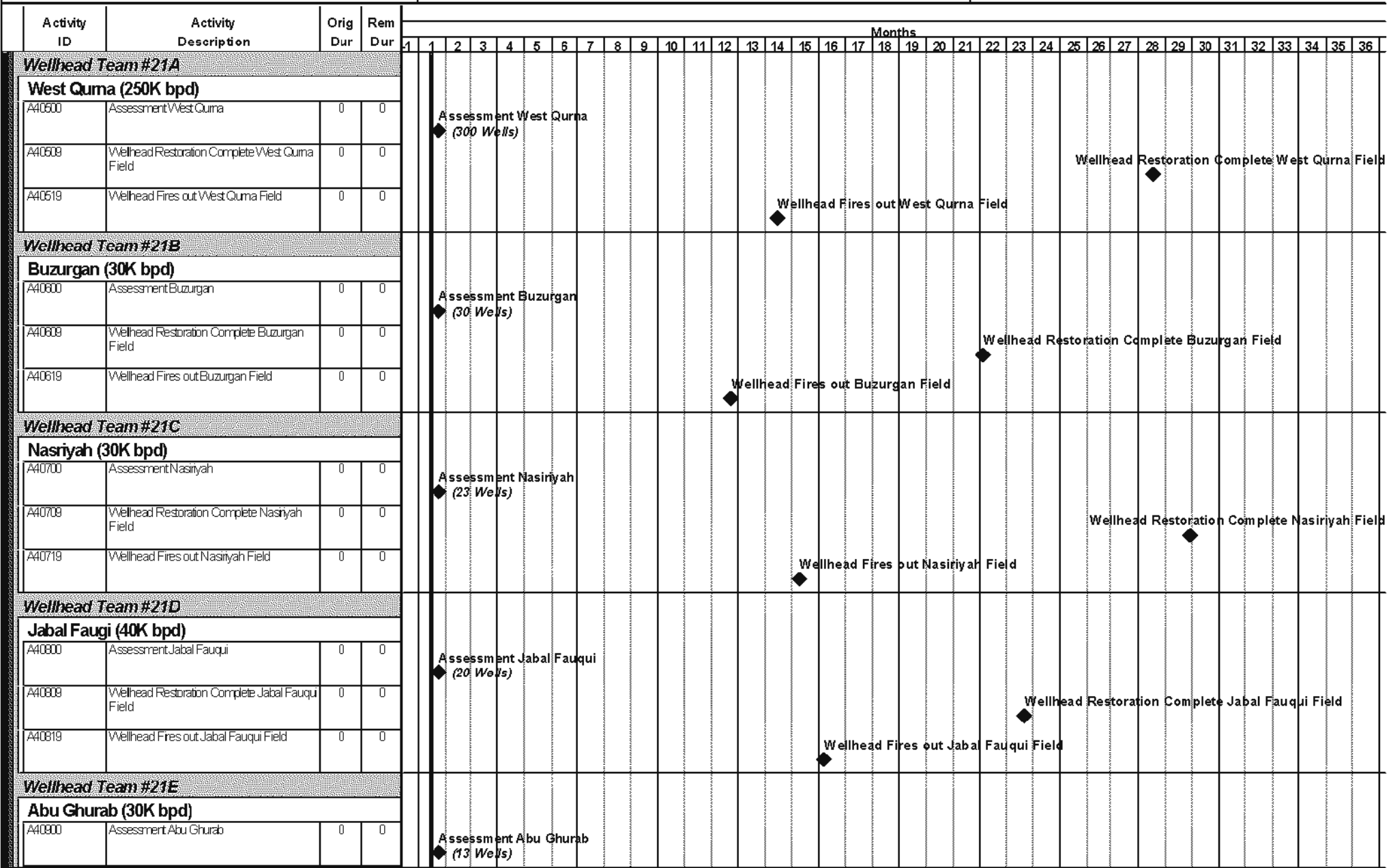


Activity ID	Activity Description	Orig Dur	Rem Dur	Months																																			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Region #1 South																																							
Wellhead Team #19A																																							
South Rumailah (700K bpd)																																							
A40100	Assessment South Rumailah	0	0	Assessment South Rumailah (218 Wells)																																			
A40108	Wellhead Restoration Complete Rumailah Field	0	0	Wellhead Restoration Complete Rumailah Field																																			
A40119	Wellhead Fires out Rumailah Field	0	0	Wellhead Fires out Rumailah Field																																			
Wellhead Team #19B																																							
North Rumailah (700K bpd)																																							
A40200	Assessment North Rumailah	0	0	Assessment North Rumailah (218 Wells)																																			
A40208	Wellhead Restoration Complete North Rumailah	0	0	Wellhead Restoration Complete North Rumailah																																			
A40219	Wellhead Fires out North Rumailah	0	0	Wellhead Fires out North Rumailah																																			
Wellhead Team #19C																																							
Al Luhais (40K bpd)																																							
A40300	Assessment Al Luhais	0	0	Assessment Al Luhais (16 Wells)																																			
A40308	Wellhead Restoration Complete Al Luhais Field	0	0	Wellhead Restoration Complete Al Luhais Field																																			
A40319	Wellhead Fires out Al Luhais Field	0	0	Wellhead Fires out Al Luhais Field																																			
Wellhead Team #19D																																							
Az Zubayr (250K bpd)																																							
A40400	Assessment Az Zubair	0	0	Assessment Az Zubair (56 Wells)																																			
A40408	Wellhead Restoration Complete Az Zubair Field	0	0	Wellhead Restoration Complete Az Zubair Field																																			
A40419	Wellhead Fires out Az Zubair Field	0	0	Wellhead Fires out Az Zubair Field																																			

	Early Bar
	Progress Bar
	Critical Activity

**EPC Project Schedule
Worst Case Deployment Schedule
Task Order 31**

Date	Revision	Checked	Approved



Early Bar
 Progress Bar
 Critical Activity

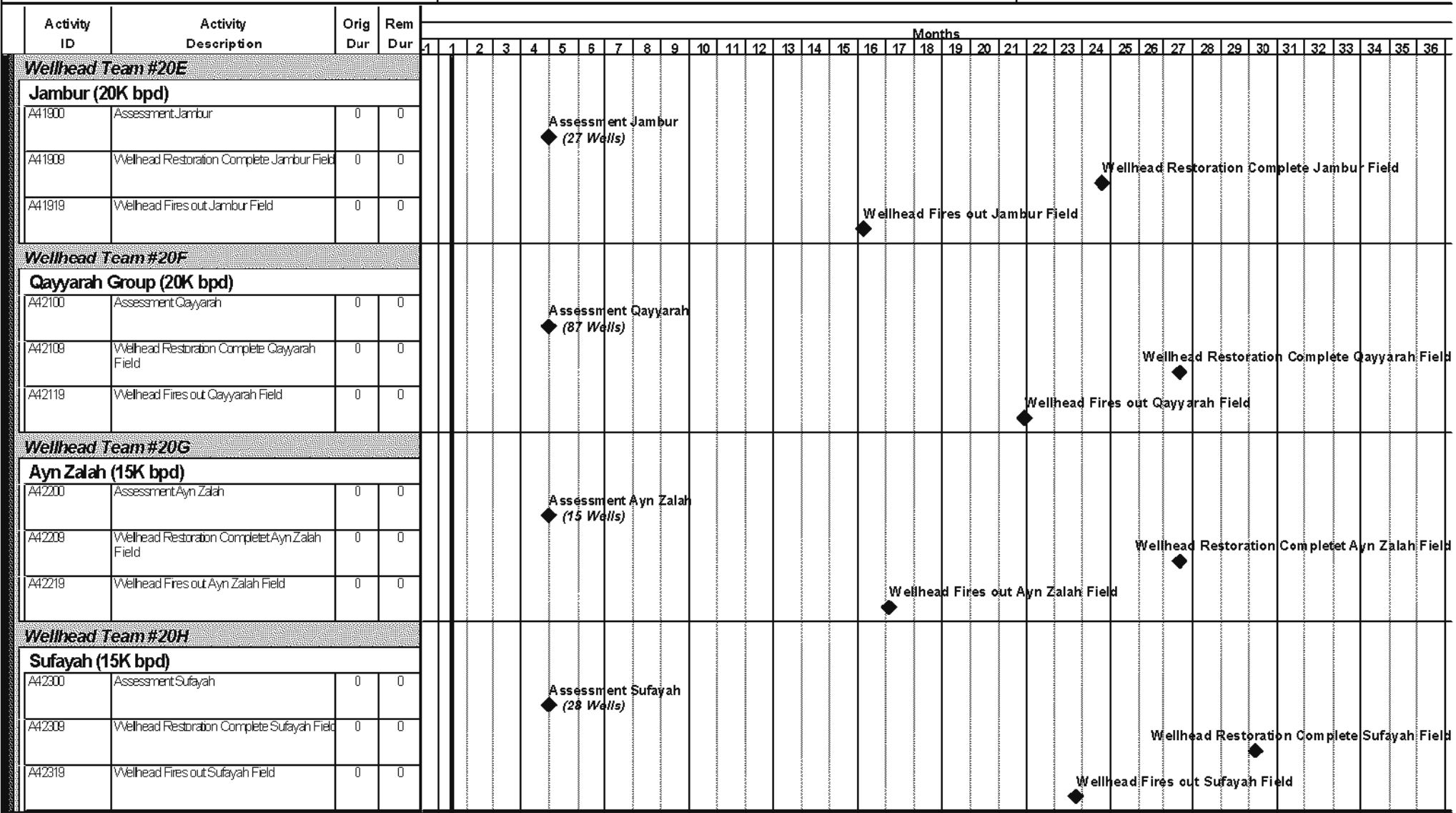
DEP3

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EPC Project Schedule
Worst Case Deployment Schedule
Task Order 31

Date	Revision	Checked	Approved

SECRET



SECRET

- Early Bar
- Progress Bar
- Critical Activity

DEP3

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**EPC Project Schedule
Worst Case Deployment Schedule
Task Order 31**

Date	Revision	Checked	Approved

Activity ID	Activity Description	Orig Dur	Rem Dur	Months																																					
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
Region #3 Central																																									
Wellhead Team 22																																									
E. Baghdad (30K bpd)																																									
A42400	Assessment East Baghdad	0	0																																						
A42408	Wellhead Restoration Complete East Baghdad	0	0																																						
A42419	Wellhead Fires out East Baghdad	0	0																																						

Assessment East Baghdad
(80 Wells)

Wellhead Restoration Complete East Baghdad

Wellhead Fires out East Baghdad

	Early Bar
	Progress Bar
	Critical Activity

DEP3

**EPC Project Schedule
Worst Case Deployment Schedule
Task Order 31**

Date	Revision	Checked	Approved