

Scout Report sent out
 Noted in the NID File
 Location map pinned
 Approval or Disapproval Letter
 Date Completed, P. & A, or
 operations suspended
 Pin changed on location map
 Affidavit and Record of A & P
 Water Shut-Off Test
 Gas-Oil Ratio Test
 Well Log Filed

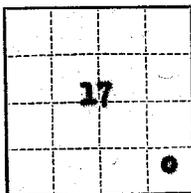
-
-
-
-
-
-
-
-
-

4-8-58

Commuter to Water Inspector Well 1-17-64

FILE NOTATIONS	
Entered in NID File	<input checked="" type="checkbox"/>
Water Shut-Off Test	<input checked="" type="checkbox"/>
Location Map Pinned	<input checked="" type="checkbox"/>
Checked and Filed	<input checked="" type="checkbox"/>
PWR for State of Fee Land	<input type="checkbox"/>
Checked by Chief	<input type="checkbox"/>
Copy NID to Field Office	<input type="checkbox"/>
Approval Letter	<input checked="" type="checkbox"/>
Disapproval Letter	<input type="checkbox"/>
COMPLETION DATA:	
Date Well Completed	<u>4/8/58</u>
GW <input checked="" type="checkbox"/> W/N	<u>PA</u>
GW <input type="checkbox"/> GS	<u>PA</u>
Location Inspected	<input type="checkbox"/>
Bond released	<input type="checkbox"/>
State of Fee Land	<input type="checkbox"/>
LOGS FILED	
Driller's Log	<u>8/11/58</u>
Electric Logs (No.)	<u>5</u>
E	<input type="checkbox"/>
I	<input type="checkbox"/>
E-I	<input checked="" type="checkbox"/>
GR	<input type="checkbox"/>
GR-N	<input checked="" type="checkbox"/>
Lat	<input type="checkbox"/>
M-L	<input checked="" type="checkbox"/>
Sonic	<input type="checkbox"/>
Others	<input type="checkbox"/>

*Temperature
 & Discontinuity*



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Allottee 14-20-603-263
Lease No. _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 23, 1957

Navajo Tract 114

Well No. 18 is located 660 ft. from N line and 660 ft. from E line of sec. 17
SE SE Section 17 41S 25E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McElmc Creek San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. 4471.6' ungraded ground.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Rotary drilling equipment will be used to drill to approximately 5500' to test the potentially productive Hermosa and Paradox formations. Surface casing: Approximately 1400' of 10-3/4" OD 32.75# ~~mls~~ casing cemented to the surface. Oil string: 7" OD 20 & 23# ~~mls~~ casing as required cemented with required amount of cement. Mud: Conventional and/or gyp or salt base mud as required. Drill stem tests: All oil and gas shows will be tested. Logs: Electric logs etc will be run before setting casing or abandonment. Stimulation treatments such as acidizing or hydraulic fracturing may be employed in completion.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company
 Address Box 1444
Durango, Colorado
 By B. M. BRADLEY
COPY (ORIGINAL SIGNED)
B. M. Bradley
 Title District Superintendent

Company THE CARTER OIL COMPANY

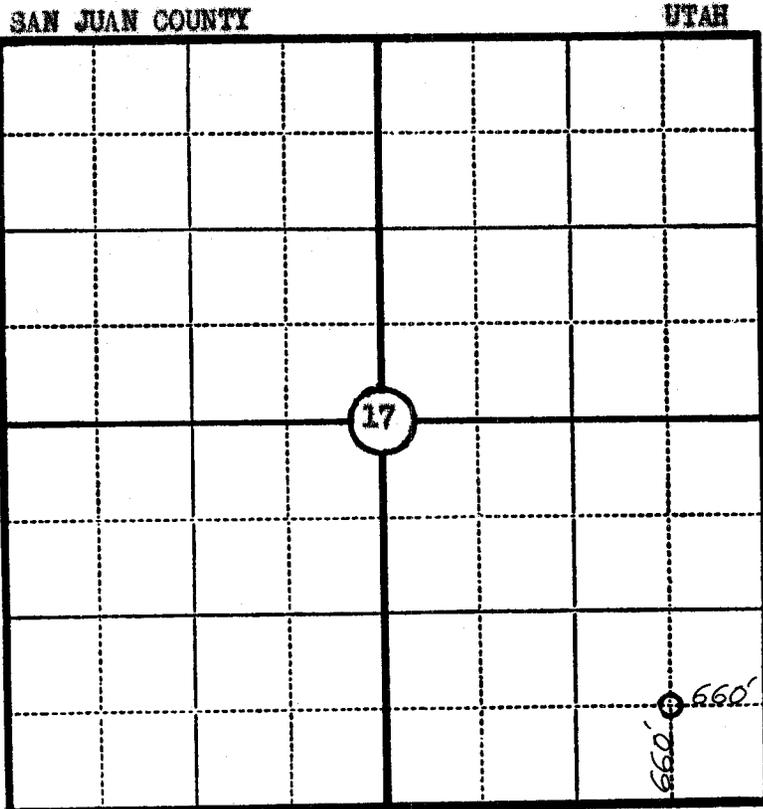
Lease NAVAJO Well No. _____

Sec. 17, T. 41 S., R. 25 E. S.L.M.

Location 660' FROM THE SOUTH LINE AND 660' FROM THE EAST LINE.

Elevation 4471.6 UNGRADED GROUND.

TBM: 1 x 2 stake 250' S 30° W of location. Elev. 4471.3



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

James P. Leese

Seal:

Registered Land Surveyor.
James P. Leese
Utah Reg. No. 1472

Surveyed 6 October, 1957

November 25, 1957

The Carter Oil Company
P. O. Box 444
Durango, Colorado

Attention: B. M. Bradley, District Superintendent

Gentlemen:

This is to acknowledge receipt of your notices of intention to drill Well No. Navajo Tract 114-17, which is to be located 660 feet from the south line and 1980 feet from the west line of Section 17, Township 41 South, Range 25 East, N.E.B.M., and Well No. Navajo Tract 114-18, which is to be located 660 feet from the south line and 660 feet from the east line of Section 17, Township 41 South, Range 25 East, N.E.B.M., San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill the above mentioned wells is hereby granted.

This approval terminates within 90 days, if the above mentioned wells are not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

OLSON B. FRIGHT
SECRETARY

CFP:en

cc: Phil McGrath
USGS, Farmington,
New Mexico

NR-USGS

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Allottee _____
Lease No. 14-20-603-263

	17	
		o

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 30, 1958, 19

Navajo Tract 114
Well No. 18 is located 660 ft. from S line and 660 ft. from E line of sec. 17
SE SE Section 17 41S 25E SLM
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McElmo Creek San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Request Notice of Intention to Drill this location, submitted 11-23-57, be cancelled. It is planned to drill this location at a latter date at which time a new Intention to Drill will be submitted.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company
Address Box 3082
Durango, Colorado
By COPY (ORIGINAL SIGNED) B. M. BRADLEY
B M Bradley
Title District Superintendent

Form 9-331 b
(April 1952)

(SUBMIT IN TRIPLICATE)

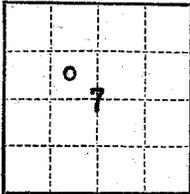
Indian Agency _____

Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____

Lease No. 14-20-603-263



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 30, 1958, 19__

Navajo Tract 114

Well No. 18 is located 1830 ft. from $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$ line and 1808 ft. from $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$ line of sec. 7

SE NW Section 7

41S

25E

SLM

(¼ Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

McElmo Creek

San Juan

Utah

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is _____ ft. 4615.9' ungraded ground.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Rotary drilling equipment will be used to drill to approximately 5650' to test the potentially productive Hermosa and Paradox formations. Surface casing: Approximately 1300' of 10-3/4" OD 32.75# sms casing cemented to the surface. Oil String: Required amount of 5 1/2" OD 14 & 15.5# sms casing cemented with required amount of cement. Mud Program: Conventional and/or gyp or salt base mud as required. Drill stem tests: All oil and gas shows will be tested. Logs: Electric logs etc will be run before setting casing or abandonment. Stimulation treatments such as acidizing or hydraulic fracturing may be employed in completion.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 3082

Durango, Colorado

COPY (ORIGINAL SIGNED) B. M. BRADLEY

By B M Bradley

Title District Superintendent

LEASE PLAT & PIPE LINE DATA

DIV. NO. _____ BLOCK NAME _____ LEASE NO. _____

LESSOR _____

TOTAL ACCUMULATED INTEREST _____

STATE _____ COUNTY _____ SEC _____ T _____ R _____ ACRES _____

DESCRIPTION AND INTEREST: _____

IF USED FOR PIPE LINE DIAGRAM — PLEASE SUPPLY THE FOLLOWING INFORMATION

Total Length and Size of Pipe Laid _____ Pipe Transferred From _____

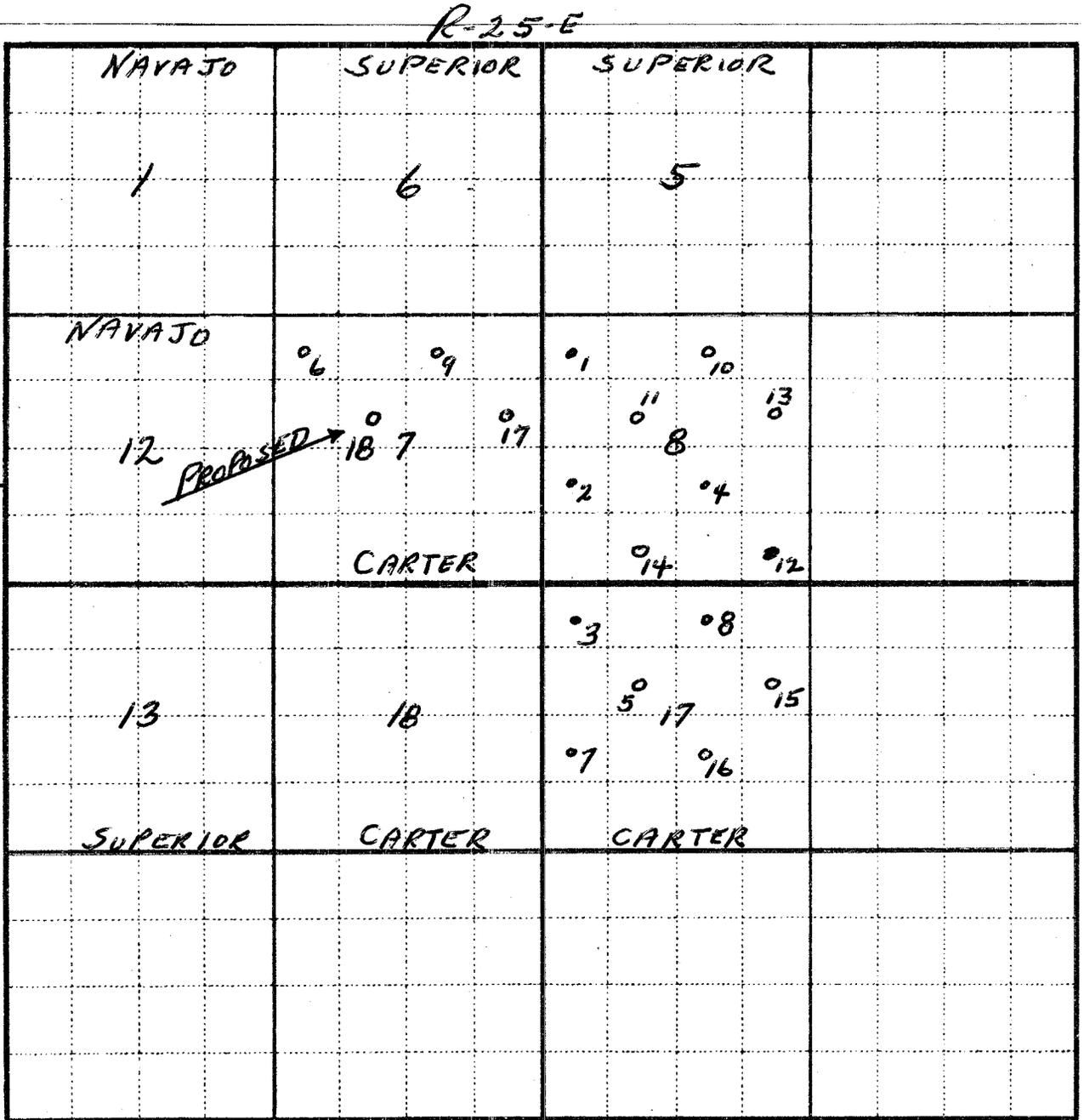
Total Length and Size of Pipe Taken Up _____ Pipe Transferred to _____

Depth Buried _____ Painted _____ Screw, Welded or Coupled _____ List Fittings (on back of this sheet if necessary)

Date _____ District _____ Farm or Plant _____

(Mail to Engineering Department - Tulsa)

Signed
T
41
S



When used as 1/4" Section Scale, 1" = 400'

When used as Section Scale, 1" = 800'

When used as 4 Sections Scale, 1" = 1600'

Place check mark after scale used.

Plat made by _____ Date _____

1/2" Base Map _____ Date _____

Plat Book (Pend.) _____ Date _____ (Comp.) _____ Date _____

Block Map (Pend.) _____ Date _____ (Comp.) _____ Date _____

Block Map Tr. (Pend.) _____ Date _____ (Comp.) _____ Date _____

February 3, 1958

The Carter Oil Company
P. O. Box 3082
Durango, Colorado

Attention: B. M. Bradley, District Superintendent

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo Tract 114-18, which is to be located 1830 feet from the north line and 1808 feet from the west line of Section 7, Township 41 South, Range 25 East, S1EM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Please be advised that your notice of intention to drill Well No. Navajo Tract 114-18, located 660 feet from the south line and 660 feet from the east line of Section 17, Township 41 South, Range 25 East, S1EM, submitted November 13, 1957, is hereby cancelled.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

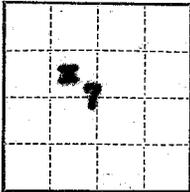
OLEON B. FEIGHT
SECRETARY

ORF:en

cc: Phil McGrath, USGS,
Farmington, New Mexico

(SUBMIT IN TRIPLICATE)

Indian Agency Havajo



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____
Lease No. 11-20-603-263

714
5/5

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Casing Report</u>	<input checked="" type="checkbox"/>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 17, 1958

Havajo Tract 114
Well No. 18 is located 2830 ft. from N line and 1808 ft. from W line of sec. 7
SE 1/4 Section 7 415 25E 51N
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McKinn Creek San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4615' ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

- Set 16" casing @ 131', cemented with 125 sz. cement.
- Set 10-3/4" casing @ 1300', cemented with 1100 sz. cement.
- Set 5-1/2" casing @ 562 1/2', cemented with 350 sz. cement.

C

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 3082
Durango, Colorado

By COPY (ORIGINAL SIGNED) H. L. FARRIS

Title Dist. Foreman

714

10

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

State Capitol Building
Salt Lake City 14, Utah

71-H 7-a

		0			
		Sec 7			

To be kept Confidential until _____
(Not to exceed 4 months after filing date)

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Operating Company The Carter Oil Company Address P.O. Box 3082, Durango, Colorado
 Lease or Tract Navajo Tract 114 Field McElmo State Utah
 Well No. 18 Sec. 7 T. 41S R. 25E Meridian SLM County San Juan
 Location 1830 ft. N of N Line and 1808 ft. E of W Line of Section 7 Elevation 4615
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed B. M. Bradley
B. M. BRADLEY

Date June 23, 1958 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling February 5, 1958 Finished drilling March 8, 1958
 COMPLETED: 4-8-58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5374 to 5393 No. 4, from 5412 to 5430
 No. 2, from _____ to _____ No. 5, from 5442 to 5465
 No. 3, from _____ to _____ No. 6, from 5474 to 5540
5550 to 5571

IMPORTANT WATER SANDS

No. 1, from 634 to 1050 No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
16"	Spiral Weld			121	None	-	-	-	
10-3/4"	32.75	8	H-40	1283	Baker	-	-	-	
5 1/2"	11.15.5	8	J-55	5627	Baker		5374	5393	Production
							5412	5430	"
							5442	5465	"
							5474	5540	"
							5550	5571	"

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
16"	131	125	Halliburton	-	-
10-3/4"	1300	1100	Halliburton	-	-
5 1/2"	5624	350	Halliburton	-	-

PLUGS AND ADAPTERS

W/ MARK

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from Surface feet to 5625 feet, and from feet to feet

Cable tools were used from None feet to feet, and from feet to feet

DATES

..... June 23,, 19 58 Put to producing on test 4-7-58, 1)

The production for the first 24 hours was 888 barrels of fluid of which % was oil; % emulsion; % water; and % sediment. Flow on 3/8" Gravity, °Bé. 40° API
choke.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. Est. GOR 550:1

EMPLOYEES

....., Driller Driller

....., Driller Driller

COMPLETED 4-8-58

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	634	634	<u>ELECTRIC LOG TOPS</u> SAN RAFAEL GROUP: Interbedded red sandstones and red shales.
634	1309	675	GLEN CANYON GROUP: Red sandstones.
1309	2475	1166	CHINLE: Interbedded sandstones & silt, shales becoming very calcareous near the base with much limestone.
2475	4405	1930	CUTLER: Predominantly red shale with thin streaks sand stone, much anhydrite in lower portion.
4405	5213	808	HERMOSA: Upper 2/3 interbedded gray & brown shales and dense limestone. Lower 1/3 dense light gray limestone locally cherty.
5213	5359	146	"A-2": Limestone, gray, dense, locally cherty, locally fossiliferous.
5359	5573	214	PARADOX: Limestone & dolomite interbedded with traces anhydrite and black shale.
5573	5625	53	"C": Interbedded black shales, dolomite and anhydrite.

[OVER]

At the end of complete Driller's Log, add Geologic Tops. State whether from Electric Logs or samples.

W

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or hauling.

Spudded 2-5-58. Drilled and reamed 20" hole to 136'. Set 121' of 16" OD Spiral Weld casing @ 131' w/ 125 sx cement. Drilled and reamed 15" hole to 1320', set 1283' of 10-3/4" OD, 32.75# H-40 casing @ 1300' w/ 11 sx cement. Drilled 7-7/8" hole to TD of 5625'. Set 5627' (less thds) of 5 1/2" OD 11# & 15.5#, J-55 casing @ 5624' w/ 350 sx cement.

NO CORES CUT.

NO DRILL STEM TESTS TAKEN.

COMPLETION: PBTB 5590'. Perforated 5571-5550' w/ 4 holes per ft. Ran tubing and packer, washed perforations w/ 200 gal mud acid, let soak for 30 min and reversed out. Spotted reg 15% acid across perforations, set packer @ 5504'. Acidized w/ 4500 gal regular 15% acid, max press 3900#, min press 100#, average injection rate 6.3 bbl/min. Flowed and swabbed to pit to clean up. Flowed on test 2 1/2 hrs on 3/8" choke for 150 bbls oil, tubing press 475#. Pulled tubing and packer.

Set cast iron bridge plug @ 5545'. Perforated 5540-5474' w/ 4 holes per ft. Ran tubing and packer, washed perforations w/ 500 gal break down acid, attempted to reverse out but failed to recover. Spotted regular 15% acid on perforations, set packer at 5342', pressured annulus to 1500#, treated in 3 stages as follows: Pumped 2500 gal acid on formation, flushed w/ 32 bbls crude, max press 1200#, min press 400#, injection rate 5.6 bbl/min. Pumped 400 gal Fix-A-Frac followed w/ crude to spot, pumped 200 gal Fix-a-Frac to spot, w/ crude, unable to break down formation w/ 4500#. Released packer and reversed out crude. Spotted regular 15% acid on perfs, reset packer @ 5342'. Pressured annulus to 1500#, broke down formation w/ 3800#. Pumped 2500 gal acid into formation followed w/ 32 bbls crude. max press 1600#, min press 1400#, injection rate 8 bbls/min. Pumped 400 gal fix-a-frac to spot, pumped 200 gal fix-a-frac to spot. Pumped 200# moth balls to spot, pumped 2500 gal regular 15% acid into formation. Oil ahead of, acid pumping @ 1400#, acid hit formation w/ 1000# press. Max treating press 1000#, min treating press 900#, injection rate 6 bbl/min. Standing press in 5 min 200#. Swabbed tubing 2 hrs to kick off, flowed to pit and cleaned up. Flowed on test 4 hrs thru 3/8" choke @ rate of 960 bbls/day, tubing press 525#. Killed well, pulled tubing and drilled and pushed bridge plug to 5589'.

Ran tubing and swabbed well to kick off, flow tested 6 hrs from all perforations (5571-5550'; 5540-5474'; 5465-5442'; 5430-5412'; 5393-5374') thru 3/8" choke @ rate of 888 BO and no water per day. Casing press 0#, tubing press 550#. Producing formation - Paradox. PBTB 5589'. Completed 4-8-58.

JUN 30 1958

INITIAL WELL TEST

McELMO CREEK UNIT # K-18

DATE March 5, 1958

OIL BBL/DAY 888

OIL GRAVITY 40

GAS CU.FT/DAY 488,000/CF

GAS-OIL RATIO CU/FT/BBL 550

WATER BBL/DAY 0

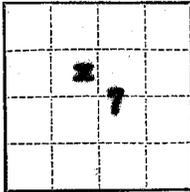
PUMPING/FLOWING F

CHOKE SIZE 24/64

FLOW TUBING PRESSURE 550

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____
Lease No. 14-20-603-263

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 17, _____, 19 59

Navajo Tract 114
Well No. 18 is located 1830 ft. from N line and 1808 ft. from W line of sec. 7
SE NW Section 7 **41S** **25E** **51M**
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McElmo Creek **San Juan** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6615 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Perf. 5350-71' with 1/2 shots per foot. Washed perf. w/200 gal. MCA, reversed out. Acidised w/1500 gal. acid. Flowed on 2 1/2 hr. test for 150 bbls. oil. Killed well, set bridge plug @ 5545', perf. 5474-5540' w/1/2 shots/ft. Acidised w/11,000 gal. reg. 15% acid, flowed on 2 1/2 hr. test at rate of 1152 b.o.p.d. Killed well, drilled out plug @ 5545', pushed to 5589'. Set bridge plug @ 5470', perforated 5374-93', 5412-30' and 5412-65' w/1/2 shots/ft. Washed perf. w/500 gal. break-down acid, spotted 7500 gal. reg. 15% acid across perf., 1200 gal. fix-a-frac and 200# meth balls. Flowed on 1/2 hr. test through 3/8" chole for 160 b.o., or 960 b.o.p.d. Drilled out plug @ 5470', drove to 5589'. Completed as oil well on 4-8-58, flowing 888 b.o.p.d. and no water.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company

Address Box 3082

Durango, Colorado

By COPY (ORIGINAL SIGNED) H. L. FARRIS

Title Dist. Foreman

March 4, 1964

Superior Oil Company
P. O. Drawer "G"
Cortez, Colorado

Re: Well No. Navajo Tract 114-18
McElmo Creek Unit K-18
Sec. 7, T. 41 S., R. 25 E.,
San Juan County, Utah

Gentlemen:

With reference to the above mentioned well, it would be appreciated if you would inform this office as to the current status.

It was observed on your January, 1964 Individual Well Production Report that this well is classified both as a producer and a water injection well. Our file does not indicate that workover operations have been conducted for water injection purposes.

Thank you for your consideration in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK
RECORDS CLERK

cnp

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IT
(Other inst. on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

#142113

6. IF INDIAN ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek Unit

8. FARM OR LEASE NAME

Navajo Tract 114

9. WELL NO.

K-18

10. FIELD AND POOL, OR WILDCAT

McElmo Creek

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 7, T41S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

The Superior Oil Company

3. ADDRESS OF OPERATOR

Drawer 'G', Cortez, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

SE NW Section 7, T41S, R25E
San Juan County, Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4616' KB

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Conversion to Water Injection X

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1-17-64 Ran Baker Model 'R' Packer on 2-7/8" 6.5# EUE tubing to 5354'. Packer set at 5347' with 16,000#.

2-3-58

18. I hereby certify that the foregoing is true and correct

SIGNED

C. R. WALLER

TITLE

Production Engineer

DATE

3/6/64

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-263

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek Unit

8. FARM OR LEASE NAME

McElmo Creek Unit

9. WELL NO.

MCU #K-18

10. FIELD AND POOL, OR WILDCAT

McElmo Creek Field

11. SEC., T., R., M., OR BLK. AND
SUBVEY OR AREA

SE/4 NW/4

Sec. 7, T41S, R25E

12. COUNTY OR PARISH 13. STATE

San Juan Cty. Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER Water Injection Well

2. NAME OF OPERATOR
The Superior Oil Company

3. ADDRESS OF OPERATOR
P. O. Drawer 'G', Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1830' FNL & 1808' FWL, Sec. 7, T41S, R25E
San Juan County, Utah

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4616' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)
PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)
REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Notice of Intent to recomplete for dual Zone I and Zone II injection and to stimulate Zone I for increased injectivity.

All perfs will be squeezed off and drilled out to 5487'.
Perf interval 5473-77'. Treat with 400 gal 28% acid and block squeeze with 100 sacks cement.
Drill out to 5554'.
Perf Zone I interval 5374-85', 5413-30' and 5442-58' with 2 jets per foot.
Treat perfs 5413-30' and 5442-58' with 6000 gal 28% acid. Displace into formation with water.
Treat perfs 5374-85' with 3000 gal 28% acid. Displace with water.
Perf Zone II interval 5482-5544' with 2 jets per foot. Treat with 3,000 gal 28% acid. Displace with water.
Hook well up for metered injection with downhole flow regulators at 5477' and 5492'.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE 1-12-70
BY Paul R. Burchell

18. I hereby certify that the foregoing is true and correct

SIGNED D. D. Kingman TITLE District Engineer DATE Jan. 7, 1970

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT UNDER CATEGORY*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-263

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek Unit

8. FARM OR LEASE NAME

McElmo Creek Unit

9. WELL NO.

MCU #K-18

10. FIELD AND POOL, OR WILDCAT

McElmo Creek Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

SE NW 7, 41S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL GAS WELL OTHER Water Injection Well

2. NAME OF OPERATOR

The Superior Oil Company

3. ADDRESS OF OPERATOR

P. O. Drawer 'G', Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1830' FNL & 1808' FWL, Sec. 7, T41S, R25E SLM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4616' KB

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Recompleted for dual injection

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Workover to effect selective injection into Desert Creek Zones I & II.

2/10-13/70 Squeezed all perfs 5374-5571' with 680 sacks cement and drilled out to 5487'.
Perf'd 5473-77' with 2 jets per ft and treated with 400 gal 28% acid.
Block squeezed with 100 sacks cement.

2/14-15/70 Drilled out to 5554'.

2/16/70 Perf'd 5374-85, 5413-30, 5442-58 with 2 jets per ft. Treated Zone I perfs
5374-5458' with 7740 gal 28% acid. Well completed flowing at 750 BOPD.

2/28/70 Pump tested Zone I at 302 BO, 85 BWPD, 22% cut.

3/12/70 Perf'd Zone II 5482-5544' with 2 jets per ft. Treated with 3000 gal 28% acid.

3/13/70 Ran plastic lined injection string with flow regulators at 5490, 5477 and 5469'
with packer between Zones I & II.

April average injection 2504 BPD at 1575 psi.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE

District Engineer

DATE

5/4/70

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

OGC/njh

*See Instructions on Reverse Side

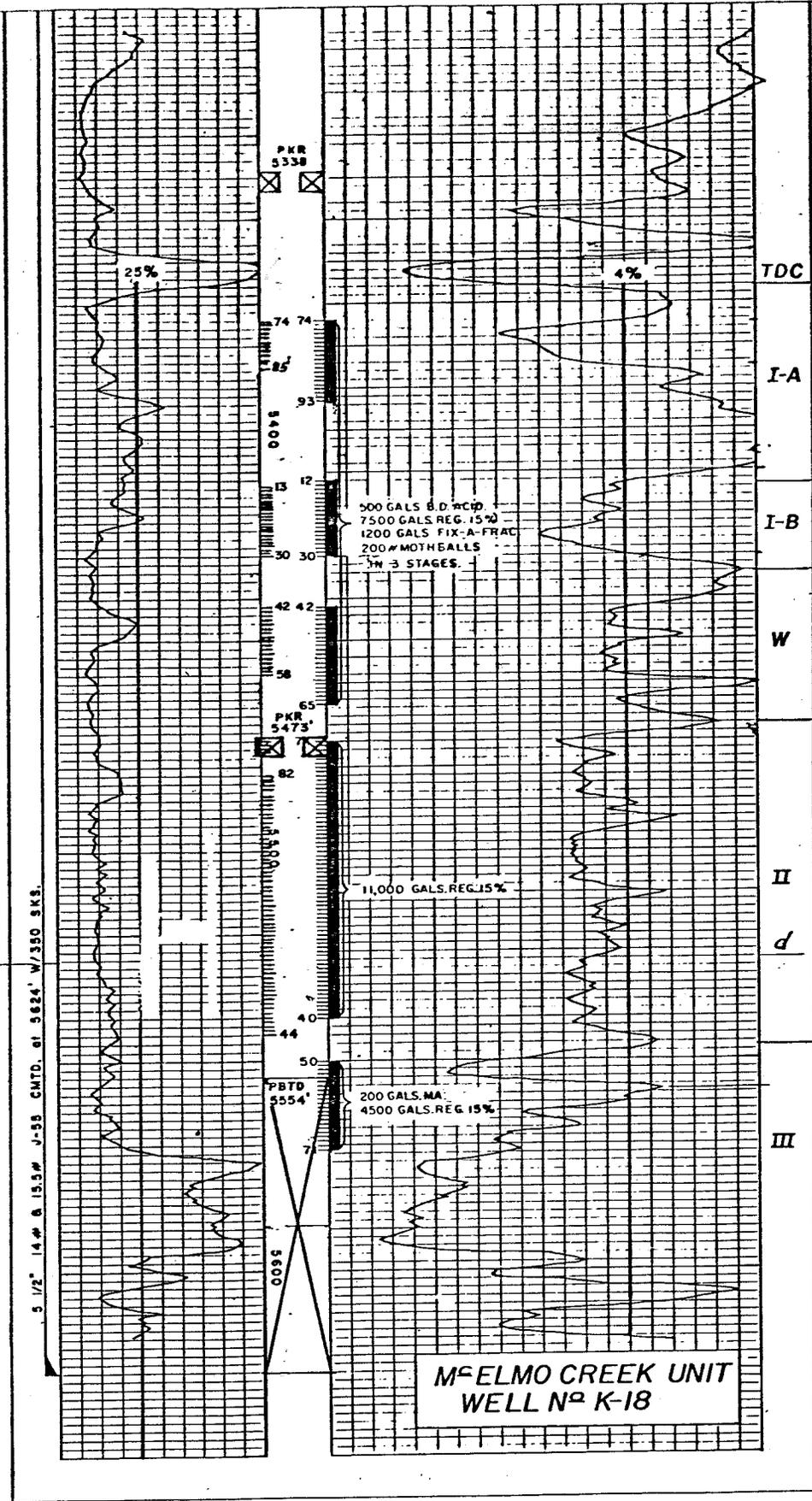
cc: State, USGS, Franques, Broussard, Hurlbut, WIO, File

McELMO CREEK UNIT #K-18
 1830' FNL, 1808' FWL
 SE NW Sec. 7, T41S, R25E
 San Juan County, UTAH

WATER INJECTION WELL

FIELD: McELMO CREEK
 KB: 4616' DF: 4615' GL: 4604' TD: 5625' PBSD: 5554' TLD: 15.00'
 SPUDED: 2-5-58 COMPLETED: 4-8-58 TOC: 4025' (temp)
 INJECTION ZONE: DESERT CREEK ZONE I AND II
 PERFS: Zone I: 5374'-85', 5413'-30', 5442'-58' (2 Jets/ft.)
 Zone II: 5482'-5544' (2 Jets/ft.)
 CASING 16" 53.1# Armco SW w/125 Sx. 3 Jts. 131'
 10-3/4" 32.75# H-40 ST&C w/1100 Sx. 41 Jts. 1300'
 5 1/2" 14 & 15.5# J-55 ST&C w/350 Sx. 170 Jts. 5624'
 TUBING: 2-3/8" 4.7# J-55 8R EUE to 5483'
 PACKERS: Baker R-3 at 5477', AR-1 at 5329'.
 REMARKS: Sliding sleeve at 5472'.
 WELL HEAD: 6" Ser. 600 Cameron Type 'F'.

4/1-7/58 Perfd 5374-93', 5412'-30', 5442'-65', 5474'-5540', 5550'-71',
 w/4 Jets/ft. Acidized w/15% reg. acid.
 1-17-64 Converted to water injection.
 2/10-16/70 Squeezed all perfs. Perfd, treated, & block squeezed 5473'-77'.
 Perfd 5374'-85', 5413'-30', 5442'-58', treated w/7740 gals. 28%
 acid. Final pressure 2300#, ISIP 1750#.
 3-12-70 Perfd 5482'-5544', treated w/3,000 gals. 28% acid. Final
 pressure 1300#, on vac immediately.
 5-1-80 Treated Zone I & II with 28% acid. Replaced Lock-set packer
 and 4 tubing joints.



2-10-70: Squeezed all perf's 5374-5571', drld out to 5487'. Perfed 5473-77' Treated W/400 gals 28% acid. Squeezed, drld out to 5554' Perfed 5374-85', 5413-30', 5442-58'. 5482-5544', Treated perf's 5374-5458' W/7740 gals 28% acid. Treated perf's 5482-5544' W/3000 28% acid. Pkrs set at 5338' & 5473'

5-1-80: Trld Zone I, 2 w/28% acid Replaced lock-set packer.

7.2%

7.3%

100%

FLOWMETER 9-17-64 9000 BPD
WATER TRACER SURVEY 9-24-80, 1920 BWPD

5 1/2" 14# & 15.5# J-55 CMTD. at 5824' W/350 SKS.

McELMO CREEK UNIT
THE SUPERIOR OIL CO. OPERATOR
 SE NW SEC. 7, T41 S, R25 E.
 SAN JUAN COUNTY, UTAH.
 ELEV. 4616' K.B. TD. 5625'

REV: 6-24-70

WI
Well No. K-18

McElmo Creek Unit

ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

(a) Well Data Sheets.

- (b) (1) Plat #1.
 (2) Well Data Sheets.
 (3) Well Data Sheets & Logs.
 (4)

i. The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.

ii. Maximum Surface Pressure: 2800 psig.
 Maximum Rate: 4000 BWPD.

<u>FORMATION</u>	<u>DEPTH</u>	<u>LITHOLOGY</u>
Chinle	1300' avg.	Shale
DeChelly	2350' avg.	Sandstone
Organ Rock	2600' avg.	Shale
Hermosa	4400' avg.	Limestone
Upper Ismay	5300' avg.	Limestone
Lower Ismay	5370' avg.	Limestone
Gothic	5450' avg.	Shale
Desert Creek	5460' avg.	Limestone
Chimney Rock	5550' avg.	Shale

(5)

(i) A throttling valve is installed on the wellhead to control injection rates and pressures.

(ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.

(iii) The analysis of injection water is as follows: (as parts per million).

PH: 6.5	Ca: 13770 ppm	SO4: 25 ppm
CL: 16700 ppm	Mg: 11421 ppm	H2S: 30 ppm
Fe: 3 ppm	HC03: 109.8 ppm	Ba: -
CaC03: 18470 ppm	C03: -	Specific Gravity: 1.0553

McElmo Creek Unit

(5) Cont.

(iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.

(v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.

(vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).

PH: 6.6	Ca: 17410 ppm	SO4: 33 ppm
CL: 34800 ppm	Mg: 11518 ppm	H2S: 10 ppm
Fe: 1.5 ppm	HCO3: 48.8 ppm	Ba: -
CaCO3: 22150 ppm	CO3: -	Specific Gravity: 1.0902

(6) To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.

(7) N/A.

(8) The Division will be notified of the date and time to monitor the mechanical integrity test.

(9) N/A.

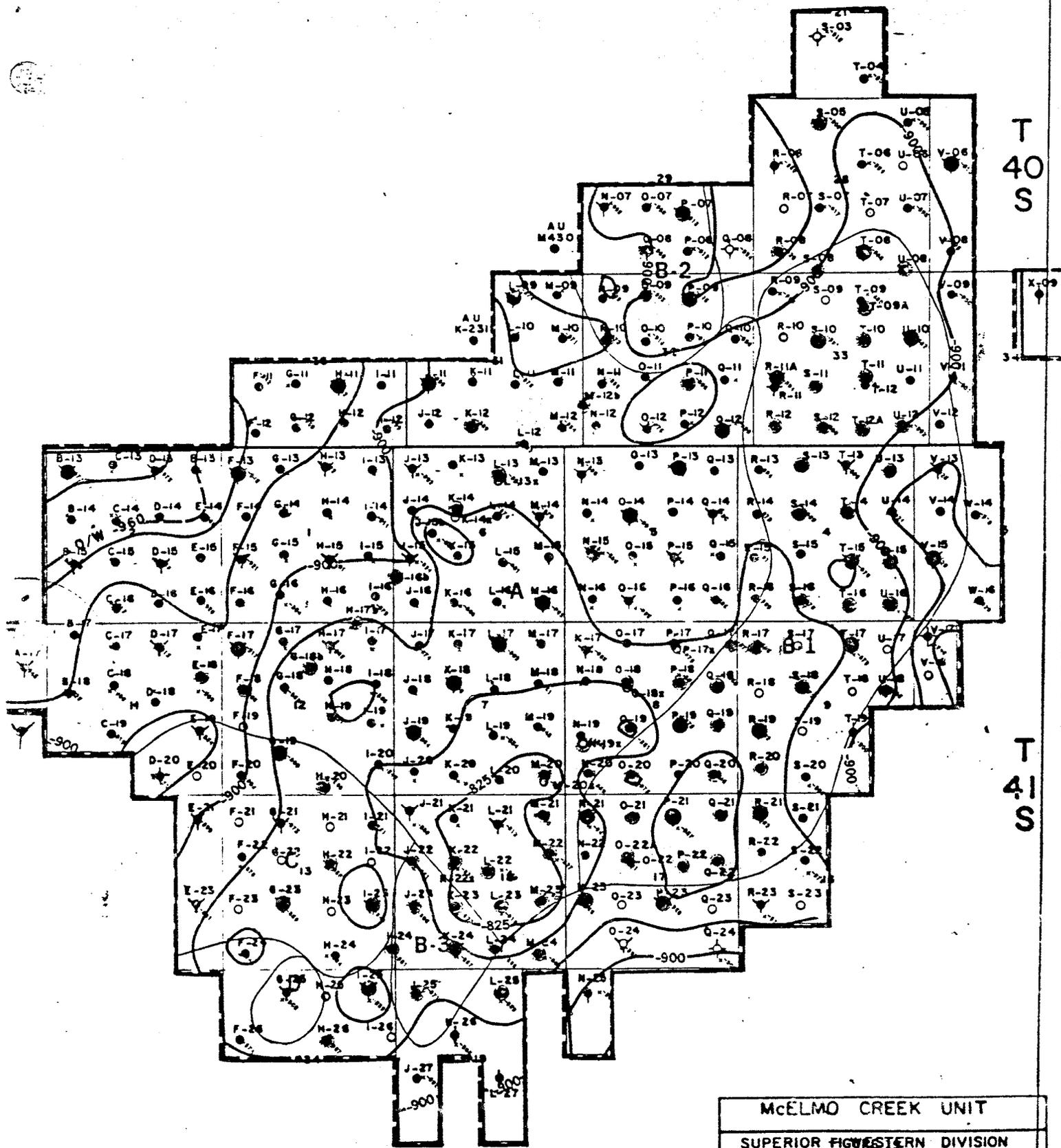
(10) N/A.

R24E

R25E

T 40 S

T 41 S



LEGEND

- FUTURE LOCATION
- DRILLING WELL (STATUS)
- OIL WELL
- ▼ WATER INJECTION WELL
- DUAL SERVICE, INJ/PROD

O/W CONTACT -960

0 2000' 4000'



McELMO CREEK UNIT	
SUPERIOR OIL WESTERN DIVISION	
McELMO CREEK UNIT SAN JUAN COUNTY, UTAH	
SUPERIOR OIL WESTERN DIVISION	
STRUCTURE II	
BY TOP OF	
DESERT CREEK LIMESTONE, DE	
DATE: 4-14-73 JUNE 2 DRAWING NO.	
BY:	SCALE:
DATE:	C.I.: 25ft.
CHECKED:	DRAWN BY:

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Superior Well No. McElm Creek Unit K18
 County: San Juan T 41S R 25E Sec. 7 API# 43-037-16357
 New Well Conversion Disposal Well Enhanced Recovery Well

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluid Source	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analysis of Injection Fluid	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TDS <u>60,000+</u>
Analysis of Water in Formation to be injected into	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TDS <u>70,000+</u>
Known USDW in area	<u>Merago-Winget</u>	Depth <u>1300</u>
Number of wells in area of review	<u>12</u> Prod. <u>8</u> P&A <u>0</u>	Water <u>0</u> Inj. <u>4</u>
Aquifer Exemption	Yes <input type="checkbox"/> NA <input checked="" type="checkbox"/>	
Mechanical Integrity Test	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	Date _____	Type _____

Comments: _____

Reviewed by: 

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other Water Injection

2. NAME OF OPERATOR
Superior Oil Company

3. ADDRESS OF OPERATOR
P.O. Drawer "G", Cortez, CO 81321

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1830' FNL; 1808' FWL, Section 7
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
14-20-603-263

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
McElmo Creek Unit

8. FARM OR LEASE NAME

9. WELL NO.
K-18

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 7, T41S, R25E

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4616' KB

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. MIRU workover rig. ND wellhead, NU and test BOP's.
2. POOH w/injection string. Scrape casing to TD. Set RBP at 5470'.
3. Acidize Desert Creek I (5374'-5458') w/1500 gals 28% HCl and 3500 gals diesel retarded 28% HCl.
4. Swab back load.
5. Retrieve RBP and POOH.
6. RIH w/injection equipment, fill backside w/inhibited FW.
7. RDMO workover rig. Return well to injection.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Roberto Dentici TITLE _____ DATE 2/13/84
R. DENTICI _____
ENGINEER
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: 2/21/84
BY: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP
(Other instruction
reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-263

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

McELMO CREEK UNIT

8. FARM OR LEASE NAME

9. WELL NO.

#K-18

10. FIELD AND POOL, OR WILDCAT

ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

SEC. 7, T41S, R25E, SLM

12. COUNTY OR PARISH 13. STATE

SAN JUAN

UTAH

OIL WELL GAS WELL OTHER Injection

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface 763' FNL, 1898' FWL OF SEC. 2
At top prod. interval: Same
At total depth: Same

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4898' KB 4885' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. MIRU.
2. POH w/ injection string.
3. PU & RIH w/ workstring & csg scraper to 5480. POH.
4. RIH to 5350' w/ workstring & packer.
5. Squeeze Desert Creek Zones I & II w/ 300 sx Class "B" cmt. Displace w/ wtr & squeeze to 2500 psi. Open bypass and reverse out cmt. PU 2 jts pressure up to 1000 psi. WOC overnite.
6. PU bit & scraper, drill out cmt to 5470'. POH.
7. Perforate Desert Creek Zone I 5374-85', 5413-30', & 5442-58' w/ 2 JSPF.
8. RIH w/ packer & tubing.
9. Acidize D.C. I w/ 1500 gal 28% HCL and 3500 gal retarded 28% HCL.
10. Swab back load fluids.
11. POH w/ work string & pkr.
12. RIH w/ pkr & injection string.
13. RDMO.

RECEIVED

JUN 14 1984

DIVISION OF OIL
GAS & MINING

Accepted
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 6/13/84
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED

James S. Andres
James S. Andres

TITLE

Engineer

DATE

6-11-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate*
(Other instructor reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Water injection		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-263
2. NAME OF OPERATOR Superior Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR 600 17th Street, Suite 1500S, Denver, CO 80202		7. UNIT AGREEMENT NAME McElmo Creek Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1830' FNL; 1808' FWL of Section 7		8. FARM OR LEASE NAME
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) GL: 4604'; KB: 4616'	9. WELL NO. K-18
		10. FIELD AND POOL, OR WILDCAT Greater Aneth
		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 7, T41S, R25E
		12. COUNTY OR PARISH 13. STATE San Juan Utah

RECEIVED
AUG 22 1984
DIVISION OF OIL
GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

7/23/84 MIRU workover rig. ND wellhead & POOH w/171 joints 2-7/8" tubing, AR-1 packer, 1 joint 2-3/8" tubing and 10' of 2-3/8" tubing. Tubing parted.

7/24/84 RIH w/overshot and fish 2-1/2 joints of 2-3/8" tubing and R-3 packer. RIH w/bit and scraper to 5461'.

7/25/84 Run scraper to 5513'. POOH w/bit and scraper. RIH w/R-3 packer and injection string and test for communication at 5478'. Desert Creek I and II communicated.

7/26/84 Ran GR/CCL from 5506' to 5100'. Set CIBP at 5475'. RIH w/fullbore packer, set at 5220' and squeezed all perfs (5374'-5544'/OA) w/400 sx Class "B" + 1% CaCl2 + .25% fluid loss additive. Reversed out 30 sxs cmt. Raised packer to 5000', set and pressured to 1500 psi.

7/27/84 RIH w/bit and scraper. Tagged cement @ 5260' and drilled to 5320'. Green cement.

7/30/84 Drilled out to 5392'. Drilling on iron to 5395'.

7/31/84 POOH w/bit and scraper. RIH w/sandline drill, recovering steel.

(SEE ATTACHED)

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Roberto Dentici</u>	TITLE <u>ENGINEER</u>	DATE <u>8/20/84</u>
<small>(This space for Federal or State office use)</small>		
APPROVED BY <u>Edm B Feight</u>	TITLE <u>UIC Manager</u>	DATE <u>9/10/84</u>
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

No. 17 Continued:

- 8/1/84 RIH w/4-3/4" mill and DC, dragging at 5398', bottomed out at 5407'. Mill at 5398' making 2'. Lowered to 5407' and milled to 5412.5' POOH w/mill and DC.
- 8/2/84 RIH w/impression block. RIH w/4-3/4" mill and DC. Milled to 5415.5'.
- 8/3/84 POOH w/4-3/4" mill and RIH w/4-1/4" mill. Milled to 5419' still recovering steel. Milling faster past 5419', recovering limestone. Milling outside of casing to 5428'.
- 8/4/84 POOH w/mill and DC. RIH w/4-1/2" gauge ring to 5410' and w/3-3/4" gauge ring to 5425'. Run GR/CCL from 5422' to 5100'. RIH w/3-1/8" casing gun and perforated open hole 5412'-5424'/2 JSPF. RIH w/4" casing gun and perforated in casing 5374'-5385'/2 JSPF (Total 46 holes; .43"). Start RIH w/tail, packer and workstring.
- 8/6/84 Finish RIH and hang tail at 5424'. Spot 3 bbls acid, and set packer at 5162' (tail at 5286'). Acidized Desert Creek I (5374'-5424'/OA) w/5000 gals 28% HCl. SI for 2 hours. Flowed back 50 bbls water.
- 8/7/84 Swabbed well recovering 200 BF, average oil cut 16%.
- 8/8/84 Swabbed well recovering 65 BF, average oil cut 25%. POOH w/packer and workover string.
- 8/9/84 RIH w/R-3 injection packer and injection string. Hang packer at 5318'. Pump 90 bbls inhibited FW on backside. Set packer and filled backside. ND BOP's. NU wellhead. RDMO workover rig. Well returned to injection.

R1

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-263

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

MCCELMO CREEK

8. FARM OR LEASE NAME

9. WELL NO.

R-18

10. FIELD AND POOL, OR WILDCAT

GREATER ANETH

11. SEC., T., R., M., OR BLE. AND SUBVY OR ASBA

Sec 7, T41S, R25E

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

JAN 14 1986

1. OIL WELL GAS WELL OTHER INJECTION WELL

2. NAME OF OPERATOR
MOBIL OIL CORP AS AGENT OF SUPERIOR OIL DIVISION OF OIL

3. ADDRESS OF OPERATOR
F. O. DRAWER 'G', CORTEZ, CO 81321 GAS & MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1830' FNL, 1808' FWL

14. PERMIT NO.
43-037-16357

15. ELEVATIONS (Show whether OF, RT, GR, etc.)
DF: 4615'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input checked="" type="checkbox"/> CO2 INJECTION	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Carbon Dioxide injection was initiated in this well on Jan 7, 1986

18. I hereby certify that the foregoing is true and correct

SIGNED *D. C. Collins*
D. C. Collins

TITLE Sr Staff Op Engr

DATE 1.9.86

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

6. LEASE DESIGNATION AND SERIAL NO. 14-20-603-263
7. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO
8. UNIT AGREEMENT NAME MCELMO CREEK
9. FARM OR LEASE NAME MCELMO CREEK UNIT
10. WELL NO. K-18
11. FIELD AND POOL, OR WILDCAT GREATER ANETH
12. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 7 T41S R25E
13. COUNTY OR PARISH SAN JUAN STATE UTAH

1. OIL WELL GAS WELL OTHER W/W
2. NAME OF OPERATOR SUPERIOR OIL COMPANY, through its Agent, MOBIL OIL CORP.
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, COLORADO 81321
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1830' FNL, 1808' FWL
14. PERMIT NO. 43-037-16357
15. ELEVATIONS (Show whether DF, RT, CR, etc.) GL: 4604'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The Superior Oil Company
Began Drilling: 2/5/58
Finished Drilling: 3/5/58

RECEIVED
FEB 10 1986
DIVISION OF OIL, GAS & MINING

To maximize effective corrosion control of metallic piping and structures down hole and above ground, Mobil Oil Corporation, Agent for Superior Oil Company, proposes to construct an electrified cathodic protection system consisting of a subsurface graphite anode bed connected to an above ground rectifier which has a lead connected to the well casing.

The construction will consist of a trench, 140' long, 6' deep and 2' wide in the old reserve pit area of the well location. All construction will be confined to existing disturbed area of well location. Existing electrical power to the well will be used for this cathodic protection system.

18. I hereby certify that the foregoing is true and correct
SIGNED C. J. Benally TITLE Sr. Regulatory Engineer DATE 2/4/86
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

Attn: R. J. Firth
Associate Director

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



R. D. Baker
Environmental Regulatory Manager

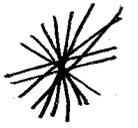
CNE/rd
CNE8661

WESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2)
 FOR THE CORTEZ SUPERVISOR AREA
 FOR THE GREATER ANETH FIELD 05/13/86

PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC	TWNSHP	RNG	WELL TYPE	API NUMBER	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT NUMBER
MC ELMO CREEK	I-23	SAN JUAN	UT	NE	SE	13-41S-24E	INJ OP	43-037-16352	14-20-603-370		96-004190
	I-25	SAN JUAN	UT	NE	NE	24-41S-24E	INJ OP	43-037-16353	14-20-603-370		96-004190
	J-11	SAN JUAN	UT	NW	SW	31-40S-25E	INJ OP	43-037-16354	14-20-603-372		96-004190
	J-13	SAN JUAN	UT	NW	NW	06-41S-25E	INJ OP	43-037-16355	14-20-603-372		96-004190
	J-15	SAN JUAN	UT	NW	SW	06-41S-25E	INJ OP	43-037-15954	14-20-603-372		96-004190
	J-17	SAN JUAN	UT	NW	NW	07-41S-25E	INJ OP	43-037-05595	14-20-603-263		96-004190
	J-19	SAN JUAN	UT	NW	SW	07-41S-25E	INJ OP	43-037-05550	14-20-603-263		96-004190
	J-21	SAN JUAN	UT	NW	NW	18-41S-25E	INJ OP	43-037-06547	14-20-603-263		96-004190
	K-14	SAN JUAN	UT	SE	NW	06-41S-25E	INJ OP	43-037-15956	14-20-603-372		96-004190
	K-18	SAN JUAN	UT	SE	NW	07-41S-25E	INJ OP	43-037-05583	14-20-603-263		96-004190
	K-20	SAN JUAN	UT	SE	SW	07-41S-25E	INJ OP	43-037-15503	14-20-603-263		96-004190
	K-22	SAN JUAN	UT	SE	NW	18-41S-25E	INJ OP	43-037-15504	14-20-603-263		96-004190
	K-22A	SAN JUAN	UT	SE	NW	18-41S-25E	INJ OP	43-037-30400	14-20-603-263		96-004190
	K-24	SAN JUAN	UT	SE	SW	18-41S-25E	INJ OP	43-037-05406	14-20-603-263		96-004190
	L-09	SAN JUAN	UT	NW	NE	31-40S-25E	INJ OP	43-037-16359	14-20-603-372		96-004190
	L-11	SAN JUAN	UT	NW	SE	31-40S-25E	INJ OP	43-037-15958	14-20-603-372		96-004190
	L-13	SAN JUAN	UT	NW	NE	06-41S-25E	INJ OP	43-037-15959	14-20-603-372		96-004190
	L-15	SAN JUAN	UT	NW	SE	06-41S-25E	INJ OP	43-037-15960	14-20-603-372		96-004190
	L-17	SAN JUAN	UT	NW	NE	07-41S-25E	INJ OP	43-037-05613	14-20-603-263		96-004190
	L-19	SAN JUAN	UT	NW	SE	07-41S-25E	INJ OP	43-037-05539	14-20-603-263		96-004190
	L-21	SAN JUAN	UT	NW	NE	18-41S-25E	INJ OP	43-037-05471	14-20-603-263		96-004190
	L-23	SAN JUAN	UT	NE	SE	18-41S-25E	INJ OP	43-037-15507	14-20-603-263		96-004190
	L-25	SAN JUAN	UT	NW	NE	19-41S-25E	INJ OP	43-037-15508	14-20-603-264		96-004190
	M-12	SAN JUAN	UT	SE	SE	31-40S-25E	INJ OP	43-037-15962	14-20-603-372		96-004190
	M-14	SAN JUAN	UT	SE	NE	06-41S-25E	INJ OP	43-037-15963	14-20-603-372		96-004190
	M-16	SAN JUAN	UT	SE	SE	06-41S-25E	INJ OP	43-037-15361	14-20-603-372		96-004190
	M-18	SAN JUAN	UT	SE	NE	07-41S-25E	INJ OP	43-037-15510	14-20-603-263		96-004190
	M-20	SAN JUAN	UT	SE	SE	07-41S-25E	INJ OP	43-037-15511	14-20-603-263		96-004190
	N-07	SAN JUAN	UT	NE	SW	29-40S-25E	INJ OP	43-037-05819	I-149-IND-8839-A		96-004190
	N-09	SAN JUAN	UT	NW	NW	32-40S-25E	INJ OP	43-037-15964	14-20-603-372		96-004190

CO2

Shall deliver CO2



UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TEST

OPERATOR: MEPNA
 FIELD: Greaser Aneth LEASE: McElmo Creek
 WELL # K-18 NAV 114-18 SEC. 7 TOWNSHIP 41S RANGE 25E
 STATE (FED) FEE PBTD 5554' DEPTH 5625 TYPE WELL INJW MAX. INJ. PRESS. 2800
 TEST DATE 9/10/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>16</u>	<u>131</u>		<u>0#</u>	<u>rate 165</u>	
<u>INTERMEDIATE</u>	<u>10 3/4</u>	<u>1300</u>		<u>7#</u>		
<u>PRODUCTION</u>	<u>3 1/2</u>	<u>5624</u>				
<u>TUBING</u>	<u>2 3/8</u>	<u>5483</u>		<u>2775</u>		

PACKER AT 5477

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

RECOMMENDED WORK PROCEDURE
McELMO CREEK UNIT
K-18
SAN JUAN COUNTY, UTAH

- 1) MI 400 BBL tank with 400 bbls 10# brine water from Montezuma Water Service. MI reverse pit and pump. All earth pits that are dug must be plastic lined, NO EXCEPTIONS. Make sure all LOCK-OUT/TAG-OUT procedures have been followed. If in doubt, call Tom Bettes, Production Foreman or Herb Keams, LP tech for assistance. ND injection skid.
- 2) MIRU Big A DDPU. Check tbg pressure. If well not dead, bullhead 40 bbls brine water to kill well. MI Baker Oil Tools. Release on/off tool and circulate hole with brine water. Release packer and POOH. Lay down injection string, send packer and on/off tool to Baker yard for re-dress.
- 3) PU notch collar + 2 jts 2-7/8" workstring + scraper + stabilizers + 174 jts 2-7/8" work string and cleanout to PSTD @ 5425' (scraper @ +/- 5362') and circulate hole clean. DO NOT run scraper past 5370' which would be possible if notch collar were outside pipe. POOH.
- 4) RIH w/ 5-1/2" packer + RBP on 2-7/8" workstring. Set RBP @ +/- 5150' and set packer 10' above. Pressure test RBP to 1000 psi. If psi holds, release packer and come up hole to test casing for leaks and isolate if necessary. Pressure tests should be a minimum of 1000 psi for 30 minutes with no more than 5% leak-off acceptable.
- 5) Once leak has been isolated, contact Engineer for instructions on possible temperature surveys prior to squeeze. CONTACT EPA REPRESENTATIVE, KEN LINGO, FARMINGTON, N.M. PRIOR TO ALL SQUEEZE WORK AND FOR TEMPERATURE SURVEYS IF REQUIRED. EPA WITNESS REQUIRED. If no casing leak was found, continue ahead from step 9).
- 6) RU Halliburton. Spot 50 sx class 'G' cement + fluid loss across leak. PU above cement and reverse clean. SI and braden head squeeze. Begin hesitation after 500 psi obtain. Maximum displacement is 3 bbl cement behind pipe or 1200 psi whichever comes first.

Class 'G' cement + Fluid Loss:
Yield = 1.14 cu-ft/sk
Fluid loss = 100 - 200 cc/30 min
Density = 15.6 #/g

SI and WOC. RD Halliburton.
- 7) PU and RIH w/ 4-3/4" bit + scraper + 2-7/8" workstring and drill out squeeze. Pressure test squeeze to 1000 psi for 30 minutes with no more than 5% leak-off being acceptable. Re-squeeze as necessary until pressure test passes. POOH.
- 8) RIH w/ retrieving head for RBP. Circulate sand off RBP, retrieve and

MCU K-18

Page 2

POOH. Lay down workstring.

- 9) PU and RIH w/ Baker 5-1/2" packer (925 Incoloy) + Model B shut-off valve + HEL on/off tool. RIH on 163jts new 2-7/8" tubing cement lined and equipped w/ torque rings. Make-up for tbg is 1000 ft-lbs torque after pin engages ring. Maximum torque = 3080 ft-lbs, minimum torque = 2240 ft-lbs. Torque turn tongs with 300+ degree grip required for make-up.
- 10) Set packer @ +/- 5180' with -5K to -10K compression. Release on/off tool and close downhole valve. Circulate packer fluid, latch on/off tool and open valve. Pressure test tbg/csg annulus to 1000 psi for 30 minutes with no more than 5% leak-off acceptable. EPA must witness test and test must be chart recorded. Best results are usually obtained after waiting 12-24 hours after circulating packer fluid.
- 11) RD Big A, turn well over to Tom Bettes, Production Foreman. Fill out all appropriate material transfer and tax credit forms. Return chart recorded pressure test to Ernie Thomas, return material transfer to Diana Bauer, return tax credit form to Tiny Higman.

T.W. McPherson
Operations Engineer

office	(303) 565-2207
home	(303) 565-0177
mobile	(303) 749-1143
pager	(505) 327-8814

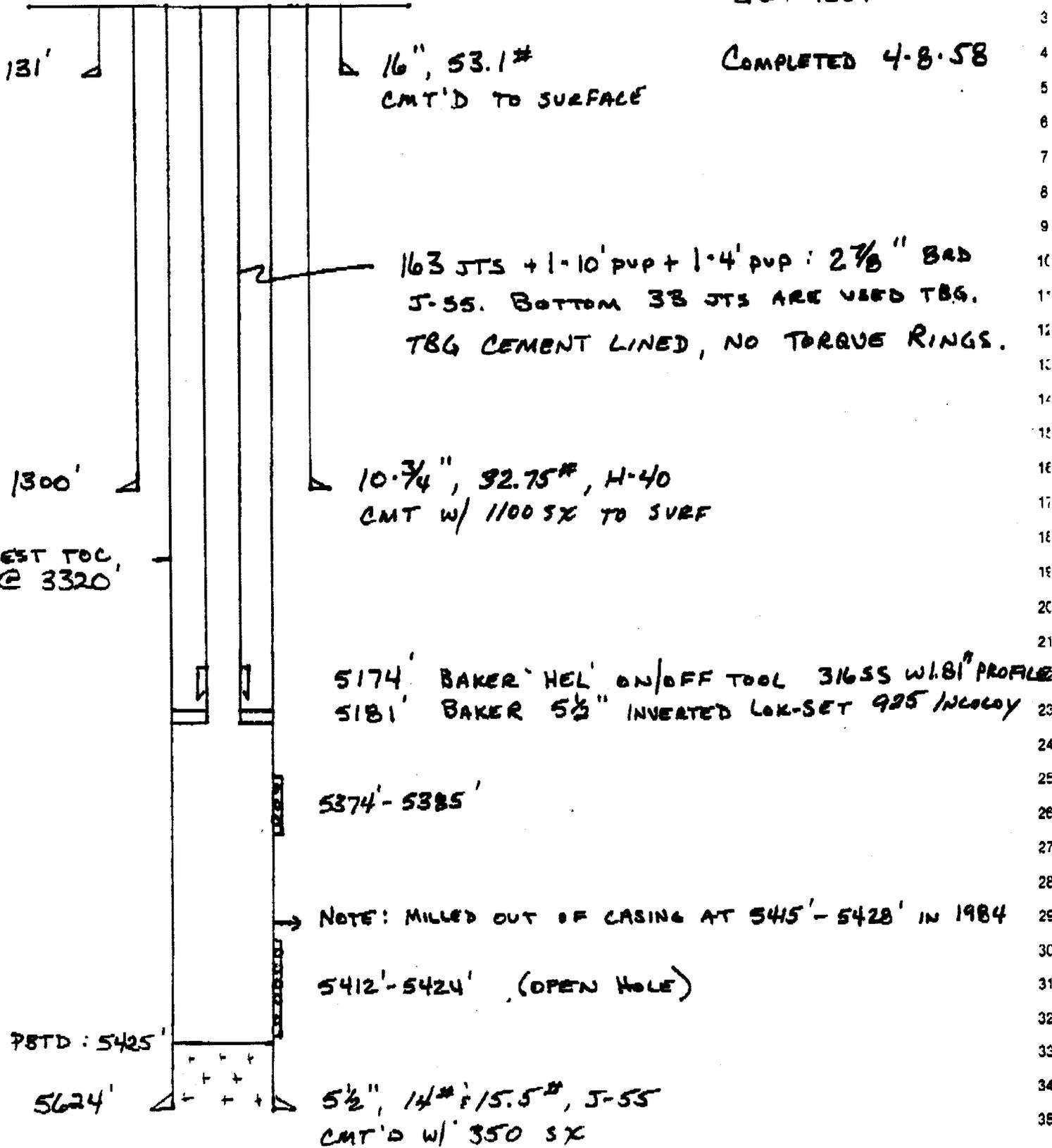
FOR MCELMO CREEK UNIT K-1B
 LOCATION 1830' FNL, 1808' FNL
 SUBJECT SE/NW SEC 7, T4S, R25E
SAN JUAN COUNTY, UTAH

JOB OR AUTH. NO. _____
 PAGE _____
 DATE _____
 BY _____

CURRENT WELLBORE SCHEMATIC

KB: 4616'
 GL: 4604'

COMPLETED 4-8-58



ENGINEERS CALCULATION SHEET

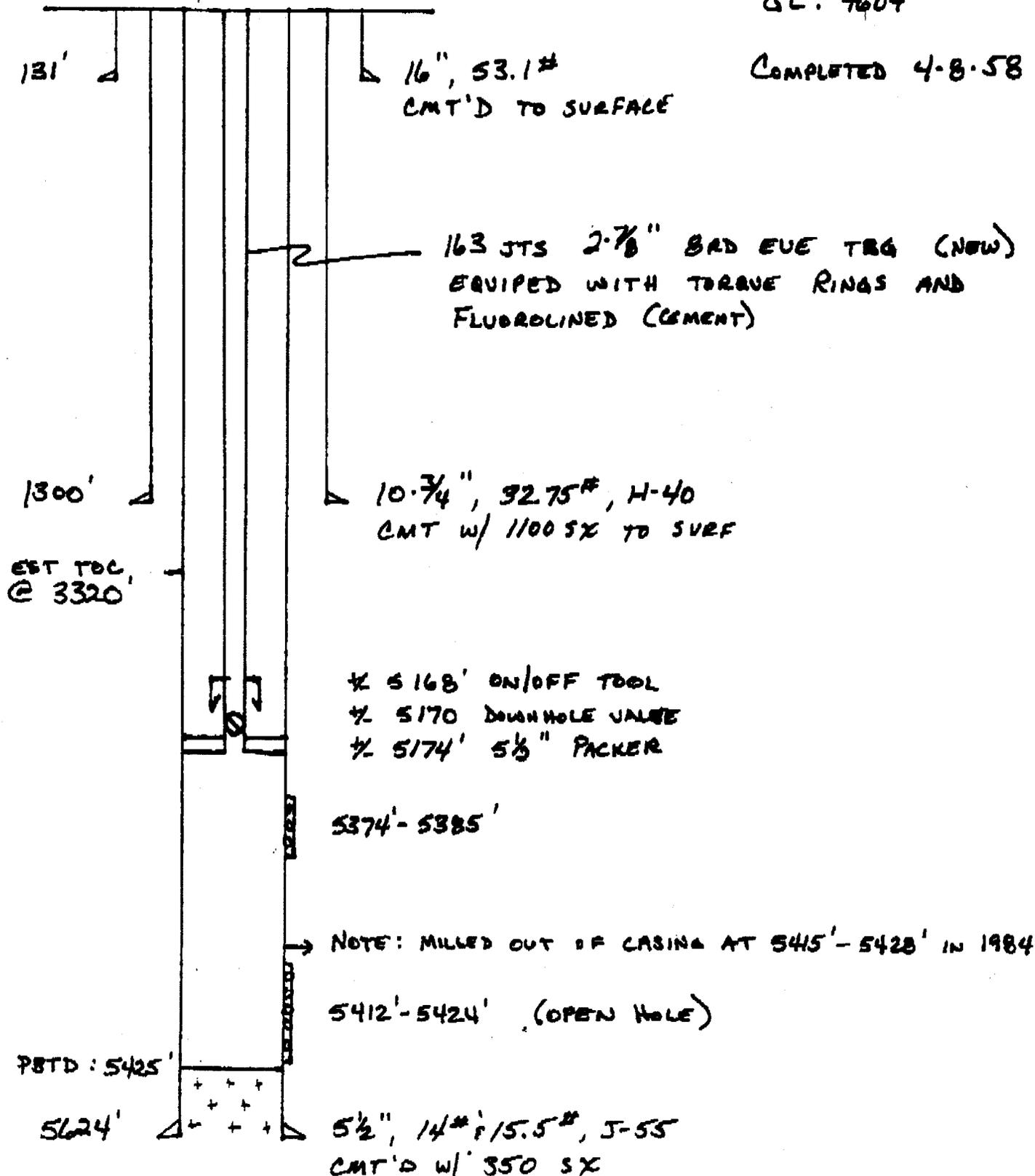
FOR McELMO CREEK UNIT K-1B
 LOCATION 1830' FNL, 1808' FNL
 SUBJECT SE/NW SEC 7, T45, R25E
SAN JUAN COUNTY, UTAH

JOB OR AUTH. NO. _____
 PAGE _____
 DATE _____
 BY _____

PROPOSED WELLBORE SCHEMATIC

KB: 4616'
 GL: 4604'

COMPLETED 4-8-58



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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
14-20-603-263

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
MCELMO CREEK UNIT

1. Type of Well
 Oil Well Gas Well Other INJECTION WELL

8. Well Name and No.
K-18

2. Name of Operator
MOBIL OIL CORPORATION

9. API Well No.
430-037-16357

3. Address and Telephone No.
P O BOX 633 MIDLAND, TX 79702 (915) 688-2585

10. Field and Pool, or Exploratory Area
GREATER ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1999' FSL, 180Y' FWL SEC.7, T41S, R25E
1830' FNL 8'

11. County or Parish, State
SAN JUAN, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other <u>WORKOVER</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*
SEE ATTACHMENT

RECEIVED

APR 05 1993

DIVISION OF
OIL GAS & MINING

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 4-6-93
BY: [Signature]

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD Title ENGINEER TECHNICIAN

Date 3-31-93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

McElmo Creek Unit K-18
Workover Procedure

1. Dig, line and fence a 100+ bbl earth pit or MI 100+ bbl flat bottom open top tank with gas vent line. MIRU coiled tubing unit with 1-1/4" coiled tubing. MI Standby Safety Services (303/565-6391) having 5 Scott 30 minute airpicks, five minute escape packs for all coiled tubing/acid stimulation crew, personal H2S monitors for all personnel on location, and one safety man. Acid stimulation company to provide eye wash station. Hook up coiled tubing injection pump to water injection line. Lay flow line from wing valve to a choke manifold having two adjustable chokes. Lay flowline from choke manifold to earth pit or flat bottom tank. Stake and chain flowline down. PT coiled tubing to 6000 psi using injection water.
2. RIH with 1-1/4" coiled tubing with perforation wash nozzle and CO to PBTD at 5424' (Open hole 5412'-5424') using injection water at maximum circulating rate at maximum circulating pressure of 5000 psi. Spot 5 bbls of xylene across open hole and perforations. POH. If unable to CO fill using injection water, attempt to clean out fill using 10 bbl of 15 percent HCL acid containing 2 gals/mgals corrosion inhibitor, and 10 lbs/mgals iron sequestering agent, neutralizing any unspent acid that returns to pit. If unsuccessful in cleaning well out, POH, RIH with 1-3/4" dynadrill on 1-1/4" coiled tubing and drill out fill. POH.
3. MIRU wireline unit with lubricator. RIH with 1-11/16" GR/CCL and log from 5410' through injection packer. POH. Turn off all radios/cellular telephones on location and post warning signs for radio/cellular telephone silence at all roads within 100 yards of location. RIH with 1-11/16" magnetically decentralized hollow steel carrier perforating guns loaded with 3.2 gram RDX charges at 4 SPF, 0 degree phasing and perforate 5374'-5385'. POH. RDMO wireline.
4. RU coiled tubing. Pickle coiled tubing with 3 bbls of 15 percent HCL acid, reverse out to pit or tank and neutralize. RIH with 1-1/4" coiled tubing with perforation wash nozzle. Displace xylene with fresh water. Wash open hole and perforations without taking returns using 2 bbls/ft of 15 percent HCL acid. NOTE: All acid pumped into well to contain 2 gals/mgals corrosion inhibitor, and 10 lbs/mgals iron sequestering agent. Pump rate should be maximum injection rate at 5000 psi surface injection pressure. Overdisplace acid using fresh water. POH. RDMO coiled tubing unit and all surface equipment.
5. Pump out tank or pit and backfill as necessary. Turn well over to production leaving well shut in.

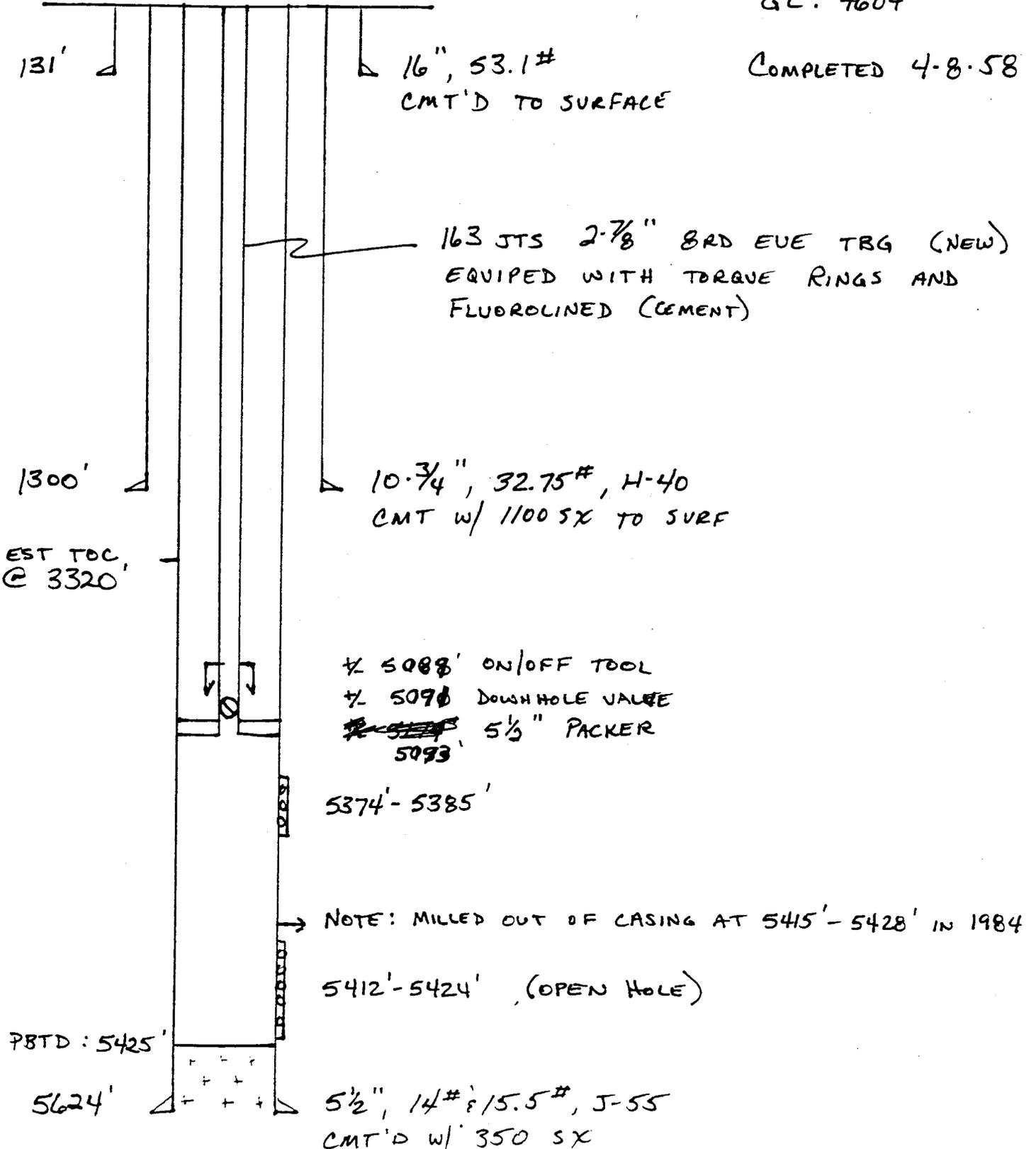
FOR McELMO CREEK UNIT K-1B
 LOCATION 1830' FNL, 1808' FNL
 SUBJECT SE/NW SEC 7, T4/S, R25E
 SAN JUAN COUNTY, UTAH

JOB OR AUTH. NO. _____
 PAGE _____
 DATE _____
 BY _____

EXISTING
~~PROPOSED~~ WELLBORE SCHEMATIC

KB: 4616'
 GL: 4604'

COMPLETED 4-8-58



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
14-20-603-263

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
MCELMO CREEK UNIT

8. Well Name and No.
K-18

9. API Well No.
43-037-16357

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN, UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other INJECTION WELL

2. Name of Operator

MOBIL OIL CORPORATION

3. Address and Telephone No.

P O BOX 633 MIDLAND, TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1830 FNL, 1808' FWL SEC.7, T41S, R24E SENW
25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other WORKOVER	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHMENT

RECEIVED

FEB 14 1994

DIVISION OF
OIL GAS & MINING

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 2-15-94
BY: J. Matthews

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD

Title ENV. & REG. TECHNICIAN

Date 02-07-94

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

STATE OF UTAH
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
✓MEPNA (MOBIL	43-037-30974	G-21A	41S	24E	13	INJW	Y
✓MEPNA (MOBIL	43-037-16344	E-23	41S	24E	14	INJW	Y
✓MEPNA (MOBIL	43-037-16343	E-21	41S	24E	14	INJW	Y
✓MEPNA (MOBIL	43-037-16353	I-25	41S	24E	24	INJW	Y
✓MEPNA (MOBIL	43-037-16349	G-25	41S	24E	24	INJW	Y
✓MEPNA (MOBIL	43-037-16384	V-15	41S	25E	3	INJI	Y
✓MEPNA (MOBIL	43-037-16383	V-13	41S	25E	3	INJW	Y
✓MEPNA (MOBIL	43-037-16157	U-16	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16148	R-13	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16149	R-15	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16378	T-13	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16379	T-15	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16156	U-14	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16152	S-16	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16151	S-14	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16365	O-14	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15969	O-16	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-16363	N-15	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15966	N-13	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15975	Q-16	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15974	Q-14	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15972	P-15	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-16368	P-13	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15960	L-15	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-16355	J-13	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15959	L-13	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15963	M-14	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-15957	K-16	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-15954	J-15	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-15956	K-14	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-16361	M-16	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15498	J-17	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15511	M-20	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15510	M-18	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15505	L-19	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16360	L-17	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15503	K-20	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16357	K-18	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16356	J-19	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15519	P-17	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15515	N-19	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15514	N-17	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15520	P-19	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15517	O-18	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-16373	R-19	41S	25E	9	INJW	Y
✓MEPNA (MOBIL	43-037-15976	R-17	41S	25E	9	INJI	Y
✓MEPNA (MOBIL	43-037-16380	T-17	41S	25E	9	INJW	Y
✓MEPNA (MOBIL	43-037-16374	R-21	41S	25E	16	INJW	Y
✓MEPNA (MOBIL	43-037-31439	P-23A	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15516	N-21	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-16369	P-21	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-16364	N-23	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15507	L-23	41S	25E	18	INJW	Y

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

1- VLC	7- PL ✓
2- LWP ✓	8- SJ ✓
3- DTG	9- FILE ✓
4- VLC ✓	
5- RJF ✓	
6- LWP ✓	

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) MOBIL EXPLOR & PROD
 (address) C/O MOBIL OIL CORP
PO DRAWER G
CORTEZ CO 81321
 phone (303) 564-5212
 account no. N7370

FROM (former operator) M E P N A
 (address) C/O MOBIL OIL CORP
PO DRAWER G
CORTEZ CO 81321
 phone (303) 564-5212
 account no. N7370

Well(s) (attach additional page if needed):

Name: ** SEE ATTACHED **	API: <u>037-16357</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- ec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- wp 6. Cardex file has been updated for each well listed above. 8-21-95
- wp 7. Well file labels have been updated for each well listed above. 9-28-95
- ec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- leg 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- See* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

** No Fee Lease Wells at this time!*

- N/A* *See* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. *DTS 8/5/95*
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

1. All attachments to this form have been microfilmed. Date: October 4 1995.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 LIC F5/Not necessary!

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____
(Location) Sec _____ Twp _____ Rng _____
(API No.) _____

Suspense
(Return Date) _____
(To - Initials) _____

Other
OPER NM CHG 01

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call)
Talked to:

Name R. J. FIRTH (Initiated Call) - Phone No. () _____
of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: _____

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC. *SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

14-20-603-263

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

MCELMO CREEK UNIT

8. Well Name and No.

MCELMO CREEK UNIT K-18

9. API Well No.

43-037-16357

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

MOBIL PRODUCING TX & NM INC.*
*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address and Telephone No.

P.O. Box 633, Midland TX 79702 (915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

(SE/NW) SEC.7, T41S, R25E
1830' FNL & 1808' FWL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

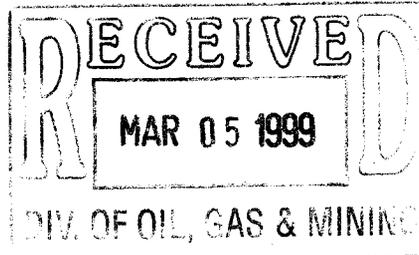
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>MIT & CHART</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SCHEDULED MIT (1998 & 1999)

ATTACHED CHART



14. I hereby certify that the foregoing is true and correct

Signed Shirley Houchins

Title SHIRLEY HOUCHINS, ENV. & REG. TECH

Date 03-02-99

(This space for Federal or State office use)

Approved by _____

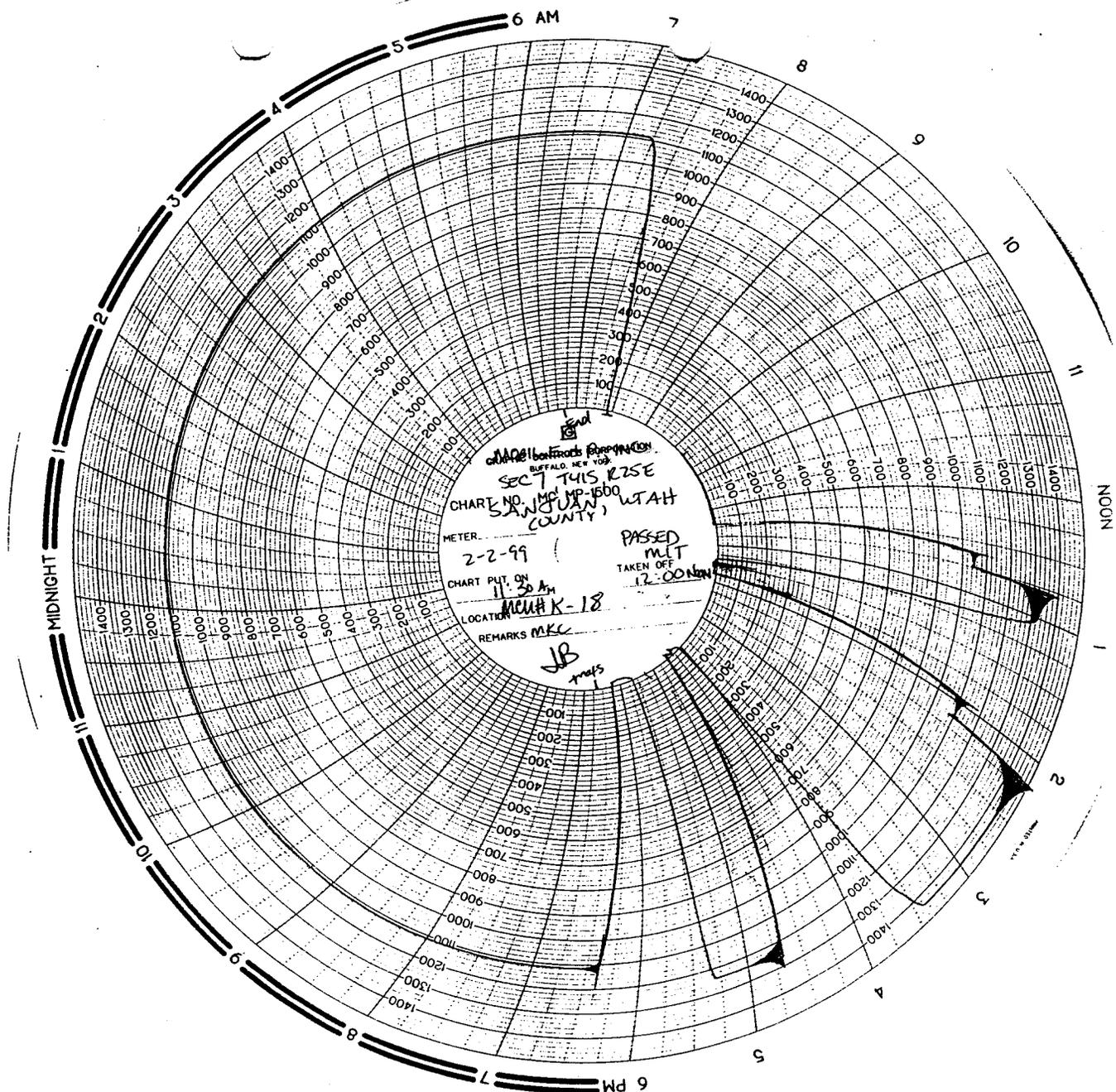
Title _____

Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side



Buffalo, NE # 103
 sec 7 TUIS R25E
 SANDUAN, UTAH
 COUNTY, WTAH
 METER: _____
 2-2-99
 CHART PUT ON 11:30 AM
 LOCATION MECH K-18
 REMARKS MKC
 JB
 PASSED MLT
 TAKEN OFF 12:00 PM

MIDNIGHT

NOON

6 PM

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

FROM: (Old Operator):	TO: (New Operator):
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

CA No. Unit: MCELMO CREEK

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO C 42-6 (MCELMO CREEK M-14)	06-41S-25E	43-037-15963	99990	INDIAN	WI	A
NAVAJO C 11-6 (MCELMO CREEK J-13)	06-41S-25E	43-037-16355	99990	INDIAN	WI	A
NAVAJO C-2 (MCELMO CREEK M-16)	06-41S-25E	43-037-16361	99990	INDIAN	WI	A
NAVAJO 114-6 (MCELMO CREEK J-17)	07-41S-25E	43-037-15498	99990	INDIAN	WI	A
MCELMO CR K-20	07-41S-25E	43-037-15503	5980	INDIAN	WI	A
MCELMO CR L-19	07-41S-25E	43-037-15505	99990	INDIAN	WI	A
MCELMO CR M-18	07-41S-25E	43-037-15510	5980	INDIAN	WI	A
MCELMO CR M-20	07-41S-25E	43-037-15511	5980	INDIAN	WI	A
MCELMO CR J-19	07-41S-25E	43-037-16356	99990	INDIAN	WI	A
NAVAJO 114-18 (MCELMO CREEK K-18)	07-41S-25E	43-037-16357	99990	INDIAN	WI	A
NAVAJO 114-9 (MCELMO CREEK L-17)	07-41S-25E	43-037-16360	99990	INDIAN	WI	A
NAVAJO 114-1 (MCELMO CREEK N-17)	08-41S-25E	43-037-15514	99990	INDIAN	WI	A
NAVAJO 114-2 (MCELMO CREEK N-19)	08-41S-25E	43-037-15515	99990	INDIAN	WI	A
NAVAJO 114-11 (MCELMO CREEK O-18)	08-41S-25E	43-037-15517	99990	INDIAN	WI	A
NAVAJO 114-10 (MCELMO CREEK P-17)	08-41S-25E	43-037-15519	99990	INDIAN	WI	A
NAVAJO 114-4 (MCELMO CREEK P-19)	08-41S-25E	43-037-15520	99990	INDIAN	WI	A
NAVAJO J 11-9 (MCELMO CREEK R-17)	09-41S-25E	43-037-15976	99990	INDIAN	WI	A
NAVAJO J-2 (MCELMO CREEK R-19)	09-41S-25E	43-037-16373	99990	INDIAN	WI	A
NAVAJO J 31-9 (MCELMO CREEK T-17)	09-41S-25E	43-037-16380	99990	INDIAN	WI	A
NAVAJO J 11-16 (MCELMO CREEK R-21)	16-41S-25E	43-037-16374	99990	INDIAN	WI	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
- Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
- If **NO**, the operator was contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 04/16/2002

NOTE: EPA ISSUES UIC PERMITS

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 04/16/2002

2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 04/16/2002

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

ExxonMobil Production Comp
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

June 27, 2001

ExxonMobil
Production

Mr. Jim Thompson
State of Utah, Division of Oil, Gas and Mining
1549 West North Temple
Suite 1210
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

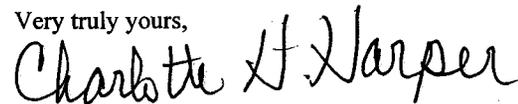
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,



Charlotte H. Harper
Permitting Supervisor

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

RECEIVED

JUN 29 2001

DIVISION OF
OIL, GAS AND MINING



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

XXXXXXXXXXXXXXXXXXXX

Navajo Area Office

NAVAJO REGION

P.O. Box 1060

Gallup, New Mexico 87305-1060

AUG 30 2001

2001 AUG 29 11:15

IN REPLY REFER TO:

RRES/543

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor
Exxon Mobil Production Company
U. S. West
P. O. Box 4358
Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of \$75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

GENNI DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures ✓
Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES	
ADM <i>DM</i>	_____
NATV ADMIN COORD	_____
SOLID MIN TEAM	_____
PETRO MENT TEAM <i>2</i>	_____
O & G INSPECT TEAM	_____
ALL TEAM LEADERS	_____
LAND RESOURCES	_____
ENVIRONMENT	_____
FILES	_____

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

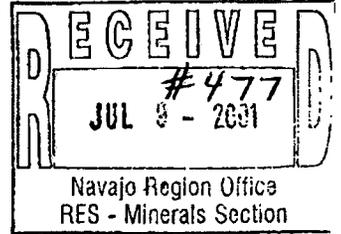
pb 7/12/2001
SN
593
File

June 27, 2001

ExxonMobil
Production

Certified Mail
Return Receipt Requested

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543



Change of Name -
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

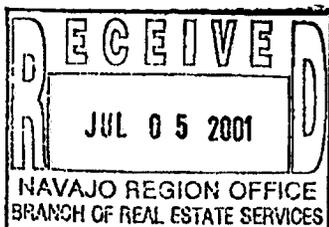
If you have any questions, please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments



ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isaac

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Vice President	<u>K.T. Koonce</u>	Address <u>800 Bell Street Houston, TX 77002</u>
Secretary	<u>F.L. Reid</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Treasure	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

DIRECTORS

Name	<u>D.D. Humphreys</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>P.A. Hanson</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>T.P. Townsend</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>B.A. Maher</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>F.A. Risch</u>	Address	<u>5959 Las Colinas Blvd. Irving, TX 75039</u>

Sincerely,

Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is trust and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800 whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218



Signature

AGENT AND ATTORNEY IN FACT

Title

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

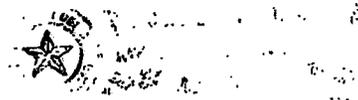
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

S. A. Miller
Assistant Secretary

COUNTY OF DALLAS)
STATE OF TEXAS)
UNITED STATES OF AMERICA)

Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

Janice M. Phillips
Notary Public



LISTING OF LEASES OF MOBIL OIL CORPORATION**Lease Number**

- 1) 14-20-0603-6504
- 2) 14-20-0603-6505
- 3) 14-20-0603-6506
- 4) 14-20-0603-6508
- 5) 14-20-0603-6509
- 6) 14-20-0603-6510
- 7) 14-20-0603-7171
- 8) 14-20-0603-7172A
- 9) 14-20-600-3530
- 10) 14-20-603-359
- 11) 14-20-603-368
- 12) 14-20-603-370
- 13) 14-20-603-370A
- 14) 14-20-603-372
- 15) 14-20-603-372A
- 16) 14-20-603-4495
- 17) 14-20-603-5447
- 18) 14-20-603-5448
- 19) 14-20-603-5449
- 20) 14-20-603-5450
- 21) 14-20-603-5451

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

One Chubb Place, Suite 1900, Houston, Texas 77027-3301
Telephone: (713) 297-4600 • Facsimile: (713) 297-4750

NW Bond

FEDERAL INSURANCE COMPANY RIDER
to be attached to and form a part of

BOND NO 8027 31 97

wherein

Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is named as Principal and

FEDERAL INSURANCE COMPANY AS SURETY,

in favor of United States of America, Department of the Interior Bureau of Indian Affairs

in the amount of \$150,000.00

bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective June 1, 2001 the name of the Principal is changed

FROM: Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.

TO : ExxonMobil Oil Corporation

All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12th of June, 2001.

ExxonMobil Oil Corporation

By:



FEDERAL INSURANCE COMPANY

By:

Mary Pierson
Mary Pierson, Attorney-in-fact



POWER OF ATTORNEY

Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company

Attn.: Surety Department
15 Mountain View Road
Warren, NJ 07059

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint R.F. Bobo, Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

Kenneth C. Wendel
Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson
Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.
County of Somerset

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies and in the presence of me, the Notary Public.



Notary Public State of New Jersey
No. 2231647
Commission Expires Oct 28, 2004

Karen Price
Notary Public

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001



Kenneth C. Wendel
Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is **MOBIL OIL CORPORATION** and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be, **ExxonMobil Oil Corporation**,"

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

CSC
CSC

5184334741

06/01 '01 08:47 NO.410 04/05
06/01 '01 07:06 NO.133 03/04

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

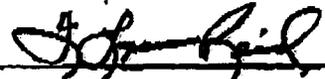
IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.



F. A. Risch, President 

STATE OF TEXAS)
COUNTY OF DALLAS)

F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.



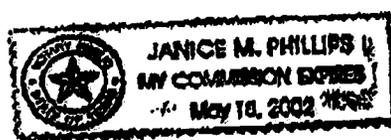
F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]



NOTARY PUBLIC, STATE OF TEXAS



CSC
CSC

5184334741

06/01 '01 09:01 NO. 411 02/02
06/01 '01 09:06 NO. 133 04/04
F010601000187

CSC 45

CERTIFICATE OF AMENDMENT

OF

MOBIL OIL CORPORATION

Under Section 805 of the Business Corporation Law

SAC

**STATE OF NEW YORK
DEPARTMENT OF STATE**

100 cc

Filed by: EXXONMOBIL CORPORATION
(Name)

FILED JUN 01 2001

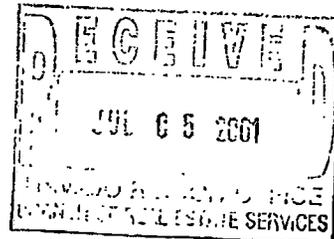
5959 Las Colinas Blvd.
(Mailing address)

TAX \$ _____
BY: *SAC*

Irving, TX 75039-2298
(City, State and Zip code)

ny Albany

Cost Ref # 165578 MPJ



010601000195

State of New York }
Department of State } ss:

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on **JUN 01 2001**



Special Deputy Secretary of State

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:		6/1/2006
FROM: (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	TO: (New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600	
CA No.	Unit:	MC ELMO (UIC)

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted on:
- 6a. (R649-9-2)Waste Management Plan has been received on: requested
- 6b. Inspections of LA PA state/fee well sites complete on: n/a
- 6c. Reports current for Production/Disposition & Sundries on: ok
7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/22/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/22/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: 6/22/2006
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: PA002769
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See attached list	API Number Attached
Location of Well Footage : See attached list County : San Juan	Field or Unit Name McElmo Creek Unit
QQ, Section, Township, Range: State : UTAH	Lease Designation and Number See attached list

EFFECTIVE DATE OF TRANSFER: 6/1/2006

CURRENT OPERATOR

Company: Exxon Mobil Oil Corporation Name: _____
 Address: PO Box 4358 Signature: _____
city Houston state TX zip 77210-4358 Title: _____
 Phone: (281) 654-1936 Date: _____
 Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

NEW OPERATOR

Company: Resolute Natural Resources Company Name: Dwight E Mallory
 Address: 1675 Broadway, Suite 1950 Signature: [Signature]
city Denver state CO zip 80202 Title: Regulatory Coordinator
 Phone: (303) 534-4600 Date: 4/26/2006
 Comments: A list of affected UIC wells is attached.
 New bond numbers for these wells are:
 BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by: [Signature]
 Title: Field Operations Manager

Approval Date: 6/12/06

Comments:

RECEIVED
APR 24 2006
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached list
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		7. UNIT or CA AGREEMENT NAME: McElmo Creek Unit
2. NAME OF OPERATOR: Resolute Natural Resources Company <i>N2700</i>		8. WELL NAME and NUMBER: See attached list
3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202		9. API NUMBER: Attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached list		10. FIELD AND POOL, OR WILDCAT: Greater Aneth
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		COUNTY: San Juan
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the McElmo Creek Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the McElmo Creek Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) <u>Dwight E Mallory</u>	TITLE <u>Regulatory Coordinator</u>
SIGNATURE	DATE <u>4/20/2006</u>

(This space for State use only)

APPROVED 6122106
Earlene Russell
Division of Oil, Gas and Mining (See Instructions on Reverse Side)
Earlene Russell, Engineering Technician

RECEIVED
APR 24 2006
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: ExxonMobil Oil Corporation <u>N1855</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Ship Rock</u>
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77210-4358</u>		7. UNIT or CA AGREEMENT NAME: <u>UTU68930A</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____ COUNTY: <u>San Juan</u> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____ STATE: <u>UTAH</u>		8. WELL NAME and NUMBER: <u>McElmo Creek</u>
PHONE NUMBER: <u>(281) 654-1936</u>		9. API NUMBER: <u>attached</u>
		10. FIELD AND POOL, OR WILDCAT: <u>Aneth</u>

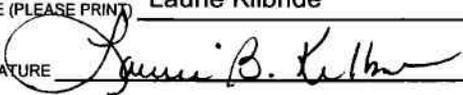
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/1/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, McElmo Creek lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of injection wells included in the transfer.

NAME (PLEASE PRINT) <u>Laurie Kilbride</u>	TITLE <u>Permitting Supervisor</u>
SIGNATURE 	DATE <u>4/19/2006</u>

(This space for State use only)

APPROVED 6/22/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
APR 21 2006

DIV. OF OIL, GAS & MINING

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	H11	430371635000S1	Active	14-20-0603-6145	NW	SE	36	40S	24E	1855FSL	2100FEL
MCELMO CREEK	I12	430371561900S1	Active	14-20-0603-6145	SE	SE	36	40S	24E	0595FSL	0595FEL
MCELMO CREEK	F11	430371561700S1	Shut-in	14-20-0603-6146	NW	SW	36	40S	24E	1885FSL	0820FWL
MCELMO CREEK	G12	430371561800S1	Active	14-20-0603-6146	SE	SW	36	40S	24E	1910FNL	2051FWL
MCELMO CREEK	D15	430371634100S1	Active	14-20-0603-6147	NW	SE	2	41S	24E	1830FSL	1830FEL
MCELMO CREEK	A17	430371633800S1	Active	14-20-0603-6148	NE	NE	10	41S	24E	1270FNL	0660FEL
MCELMO CREEK	C14	430371626500S1	Active	14-20-0603-6509	SE	NW	2	41S	24E	2140FNL	2140FWL
MCELMO CREEK	D13	430371626700S1	Active	14-20-0603-6510	NW	NE	2	41S	24E	0820FNL	1920FEL
MCELMO CREEK	E14	430371626800S1	Active	14-20-0603-6510	SE	NE	2	41S	24E	2050FNL	0500FEL
MCELMO CREEK	T08	430371637700S1	Shut-in	14-20-603-2048A	SW	SE	28	40S	25E	0660FSL	1980FEL
MCELMO CREEK	R09	430371614700S1	Active	14-20-603-2057	NW	NW	33	40S	25E	0500FNL	0625FWL
MCELMO CREEK	R11A	430373017900S1	Active	14-20-603-2057	NW	SW	33	40S	25E	2030FSL	0680FWL
MCELMO CREEK	R13	430371614800S1	Active	14-20-603-2057	NW	NW	4	41S	25E	0660FNL	0660FWL
MCELMO CREEK	R15	430371614900S1	Active	14-20-603-2057	NW	SW	4	41S	25E	1990FSL	0500FWL
MCELMO CREEK	S10	430371637500S1	Active	14-20-603-2057	SE	NW	33	40S	25E	1980FNL	1980FWL
MCELMO CREEK	S12	430371615000S1	Active	14-20-603-2057	SE	SW	33	40S	25E	0645FSL	2140FWL
MCELMO CREEK	S14	430371615100S1	Active	14-20-603-2057	SE	NW	4	41S	25E	2005FNL	1820FWL
MCELMO CREEK	S16	430371615200S1	Active	14-20-603-2057	SE	SW	4	41S	25E	0700FSL	1820FWL
MCELMO CREEK	T09A	430373008000S1	Active	14-20-603-2057	NW	NE	33	40S	25E	0940FNL	2035FEL
MCELMO CREEK	T13	430371637800S1	Active	14-20-603-2057	NW	NE	4	41S	25E	0500FNL	2090FEL
MCELMO CREEK	T15	430371637900S1	Active	14-20-603-2057	NW	SE	4	41S	25E	1880FSL	1890FEL
MCELMO CREEK	U10	430371638100S1	Active	14-20-603-2057	SE	NE	33	40S	25E	1980FNL	0610FSL
MCELMO CREEK	U12	430371615500S1	Active	14-20-603-2057	SE	SE	33	40S	25E	0660FSL	0805FEL
MCELMO CREEK	U14	430371615600S1	Active	14-20-603-2057	SE	NE	4	41S	25E	1980FNL	0660FEL
MCELMO CREEK	U16	430371615700S1	Active	14-20-603-2057	SE	SE	4	41S	25E	0550FSL	0745FEL
MCELMO CREEK	V13	430371638300S1	Active	14-20-603-2057	NW	NW	3	41S	25E	0660FNL	0660FWL
MCELMO CREEK	V15	430371638400S1	Active	14-20-603-2057	NW	SW	3	41S	25E	1980FSL	0560FWL
MCELMO CREEK	J17	430371549800S1	Active	14-20-603-263	NW	NW	7	41S	25E	0820FNL	0550FWL
MCELMO CREEK	J19	430371635600S1	Active	14-20-603-263	NW	SW	7	41S	25E	2056FNL	1997FWL
MCELMO CREEK	J21	430371549900S1	Active	14-20-603-263	NW	NW	18	41S	25E	0400FNL	0575FWL
MCELMO CREEK	K18	430371635700S1	Active	14-20-603-263	SE	NW	7	41S	25E	1830FNL	1808FWL
MCELMO CREEK	K20	430371550300S1	Active	14-20-603-263	SE	SW	7	41S	25E	0660FSL	1810FWL
MCELMO CREEK	K22X	430373040000S1	Active	14-20-603-263	SE	NW	18	41S	25E	2082FNL	1588FWL
MCELMO CREEK	K24	430371635800S1	Active	14-20-603-263	SE	SW	18	41S	25E	0660FSL	1801FWL
MCELMO CREEK	L17	430371636000S1	Active	14-20-603-263	NW	NE	7	41S	25E	0660FNL	1980FEL
MCELMO CREEK	L19	430371550500S1	Active	14-20-603-263	NW	SE	7	41S	25E	1860FSL	2140FEL
MCELMO CREEK	L21	430371550600S1	Active	14-20-603-263	NW	NE	18	41S	25E	0820FNL	1980FEL
MCELMO CREEK	L23	430371550700S1	Active	14-20-603-263	NW	SE	18	41S	25E	1980FSL	1980FEL
MCELMO CREEK	M18	430371551000S1	Active	14-20-603-263	SE	NE	7	41S	25E	1850FNL	0790FEL
MCELMO CREEK	M20	430371551100S1	Shut-in	14-20-603-263	SE	SE	7	41S	25E	0660FSL	0660FEL
MCELMO CREEK	N17	430371551400S1	Active	14-20-603-263	NW	NW	8	41S	25E	0810FNL	0660FWL
MCELMO CREEK	N19	430371551500S1	Active	14-20-603-263	NW	SW	8	41S	25E	1850FSL	0500FWL
MCELMO CREEK	N21	430371551600S1	Active	14-20-603-263	NW	NW	17	41S	25E	0660FNL	0660FWL
MCELMO CREEK	O18	430371551700S1	Active	14-20-603-263	SE	NW	8	41S	25E	1830FNL	1890FWL
MCELMO CREEK	P17	430371551900S1	Active	14-20-603-263	NW	NE	8	41S	25E	0660FNL	1980FEL

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location							
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot	
MCELMO CREEK	P19	430371552000S1	Active	14-20-603-263	NW	SE	8	41S	25E	2140FSL	1980FEL	
MCELMO CREEK	P21	430371636900S1	Active	14-20-603-263	NW	NE	17	41S	25E	0660FNL	1980FEL	
MCELMO CREEK	P23A	430373143900S1	Active	14-20-603-263	SW	NE	17	41S	25E	2531FNL	2325FEL	
MCELMO CREEK	L25	430371550800S1	Active	14-20-603-264	NW	NE	19	41S	25E	0660FNL	1980FEL	
MCELMO CREEK	R17	430371597600S1	Active	14-20-603-359	NW	NW	9	41S	25E	0740FNL	0560FWL	
MCELMO CREEK	R19	430371637300S1	Active	14-20-603-359	NW	SW	9	41S	25E	1980FSL	0660FWL	
MCELMO CREEK	R21	430371637400S1	Active	14-20-603-359	NW	NW	16	41S	25E	0511FNL	0562FWL	
MCELMO CREEK	T17	430371638000S1	Active	14-20-603-359	NW	NE	9	41S	25E	0675FNL	1933FEL	
MCELMO CREEK	E21	430371634300S1	Active	14-20-603-370	NE	NE	14	41S	24E	0660FNL	0660FEL	
MCELMO CREEK	E23	430371634400S1	Active	14-20-603-370	NE	SE	14	41S	24E	2031FSL	0711FEL	
MCELMO CREEK	G21A	430373097400S1	Active	14-20-603-370	NE	NW	13	41S	24E	0867FNL	1883FWL	
MCELMO CREEK	G23	430371634800S1	Shut-in	14-20-603-370	NE	SW	13	41S	24E	2092FSL	1899FWL	
MCELMO CREEK	G25	430371634900S1	Active	14-20-603-370	NE	NW	24	41S	24E	0660FNL	1980FWL	
MCELMO CREEK	I23	430371635200S1	Active	14-20-603-370	NE	SE	13	41S	24E	1980FSL	0660FEL	
MCELMO CREEK	I25	430371635300S1	Active	14-20-603-370	NE	NE	24	41S	24E	0530FNL	0820FEL	
MCELMO CREEK	J11	430371635400S1	TA'd	14-20-603-372	NW	SW	31	40S	25E	1980FSL	0660FWL	
MCELMO CREEK	J13	430371635500S1	Active	14-20-603-372	NW	NW	6	41S	25E	0621FNL	0580FWL	
MCELMO CREEK	J15	430371595400S1	Active	14-20-603-372	NW	SW	6	41S	25E	1980FSL	0500FWL	
MCELMO CREEK	K12	430371595500S1	Active	14-20-603-372	SW	SW	31	40S	25E	0670FSL	1970FWL	
MCELMO CREEK	K14	430371595600S1	Active	14-20-603-372	SE	NW	6	41S	25E	1851FNL	1885FWL	
MCELMO CREEK	K16	430371595700S1	Active	14-20-603-372	SE	SW	6	41S	25E	0660FSL	1816FWL	
MCELMO CREEK	L09	430371635900S1	Active	14-20-603-372	NW	NE	31	40S	25E	0660FNL	1980FEL	
MCELMO CREEK	L13	430371595900S1	Active	14-20-603-372	NW	NE	6	41S	25E	0778FNL	1917FEL	
MCELMO CREEK	L15	430371596000S1	Active	14-20-603-372	NW	SE	6	41S	25E	1820FSL	1830FEL	
MCELMO CREEK	M10	430371596100S1	Shut-in	14-20-603-372	SE	NE	31	40S	25E	1980FNL	0530FEL	
MCELMO CREEK	M12	430371596200S1	Active	14-20-603-372	SE	SE	31	40S	25E	0590FSL	0585FEL	
MCELMO CREEK	M14	430371596300S1	Active	14-20-603-372	SE	NE	6	41S	25E	2089FNL	0773FEL	
MCELMO CREEK	M16	430371636100S1	Active	14-20-603-372	SE	SE	6	41S	25E	0660FSL	0660FEL	
MCELMO CREEK	N09	430371596400S1	Shut-in	14-20-603-372	NW	NW	32	40S	25E	0628FNL	0615FWL	
MCELMO CREEK	N11	430371596500S1	Active	14-20-603-372	NW	SW	32	40S	25E	2069FSL	0618FWL	
MCELMO CREEK	N13	430371596600S1	Active	14-20-603-372	NW	NW	5	41S	25E	0840FNL	0505FWL	
MCELMO CREEK	N15	430371636300S1	Active	14-20-603-372	NW	SW	5	41S	25E	2140FSL	820FWL	
MCELMO CREEK	O12	430371596800S1	Active	14-20-603-372	SE	SW	32	40S	25E	0809FSL	1832FWL	
MCELMO CREEK	O14	430371636500S1	Active	14-20-603-372	SE	NW	5	41S	25E	2056FNL	1997FWL	
MCELMO CREEK	O16	430371596900S1	Active	14-20-603-372	SE	SW	5	41S	25E	0660FSL	1980FWL	
MCELMO CREEK	P09	430371636700S1	Active	14-20-603-372	NW	NE	32	40S	25E	0598FNL	2100FEL	
MCELMO CREEK	P11	430371597101S2	Active	14-20-603-372	NW	SE	32	40S	25E	2105FSL	2006FEL	
MCELMO CREEK	P13	430371636800S1	Active	14-20-603-372	NW	NE	5	41S	25E	0610FNL	1796FWL	
MCELMO CREEK	P15	430371597200S1	Active	14-20-603-372	NW	SE	5	41S	25E	1980FSL	1980FEL	
MCELMO CREEK	Q10	430371597301S1	Active	14-20-603-372	SE	NE	32	40S	25E	1899FNL	0532FEL	
MCELMO CREEK	Q16	430371597500S1	TA'd	14-20-603-372	SE	SE	5	41S	25E	0660FSL	0660FEL	
MCELMO CREEK	F13	430371634500S1	Active	14-20-603-4032	NW	NW	1	41S	24E	0795FNL	0535FWL	
MCELMO CREEK	F15A	430373114900S1	Active	14-20-603-4032	NW	SW	1	41S	24E	1920FSL	0624FWL	
MCELMO CREEK	G14	430371614300S1	Active	14-20-603-4032	SE	NW	1	41S	24E	1980FNL	1980FWL	
MCELMO CREEK	G16	430371614400S1	Active	14-20-603-4032	SE	SW	1	41S	24E	0820FSL	1820FWL	
MCELMO CREEK	H13	430371635100S1	Active	14-20-603-4032	NW	NE	1	41S	24E	0540FNL	2110FEL	
MCELMO CREEK	I-14	430371614500S1	Active	14-20-603-4032	SE	NE	1	41S	24E	1980FNL	0660FEL	

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	F17	430371549300S1	Active	14-20-603-4039	NW	NW	12	41S	24E	0740FNL	0500FWL
MCELMO CREEK	G18	430371549400S1	Active	14-20-603-4039	SE	NW	12	41S	24E	1980FNL	1980FWL
MCELMO CREEK	H15	430371549500S1	Active	14-20-603-4039	NW	SE	1	41S	24E	1980FSL	1980FEL
MCELMO CREEK	H17	430371549600S1	Active	14-20-603-4039	NE	NW	12	41S	24E	0660FNL	1980FEL
MCELMO CREEK	I18	430371570900S1	Active	14-20-603-4495	SE	NE	12	41S	24E	1840FNL	0555FEL
MCELMO CREEK	E19	430371634200S1	Shut-in	14-20-603-5449	NE	SE	11	41S	24E	1980FSL	0660FEL
MCELMO CREEK	G19	430371634600S1	Active	14-20-603-5450	NE	SW	12	41S	24E	1350FSL	1800FWL
MCELMO CREEK	I20	430371571000S1	Active	14-20-603-5451	SE	SE	12	41S	24E	0990FSL	0500FEL
MCELMO CREEK	N07	430371636200S1	Active	I-149-IND-8839	NE	SW	29	40S	25E	2083FSL	745FWL
MCELMO CREEK	P07	430371636600S1	Active	I-149-IND-8839	NW	SE	29	40S	25E	1820FSL	2140FEL
MCELMO CREEK	O10	430371596700S1	Active	NOG99041325	SE	NW	32	40S	25E	2086FNL	1944FWL

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-263
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
1. TYPE OF WELL Water Injection Well		7. UNIT or CA AGREEMENT NAME: MCELMO CREEK
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		8. WELL NAME and NUMBER: NAVAJO 114-18 (MCELMO K-18)
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		9. API NUMBER: 43037163570000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1830 FNL 1808 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 07 Township: 41.0S Range: 25.0E Meridian: S		9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/15/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute proposes to sidetrack and recomplete Desert Creek IIC in the MCU K-18 via open hole and inject with existing productive intervals.

Sherry

658091X
41228854
37.239093
-109.217703

Bill

658111X
41228454
37.238733
-109.217478

**Approved by the
Utah Division of
Oil, Gas and Mining**

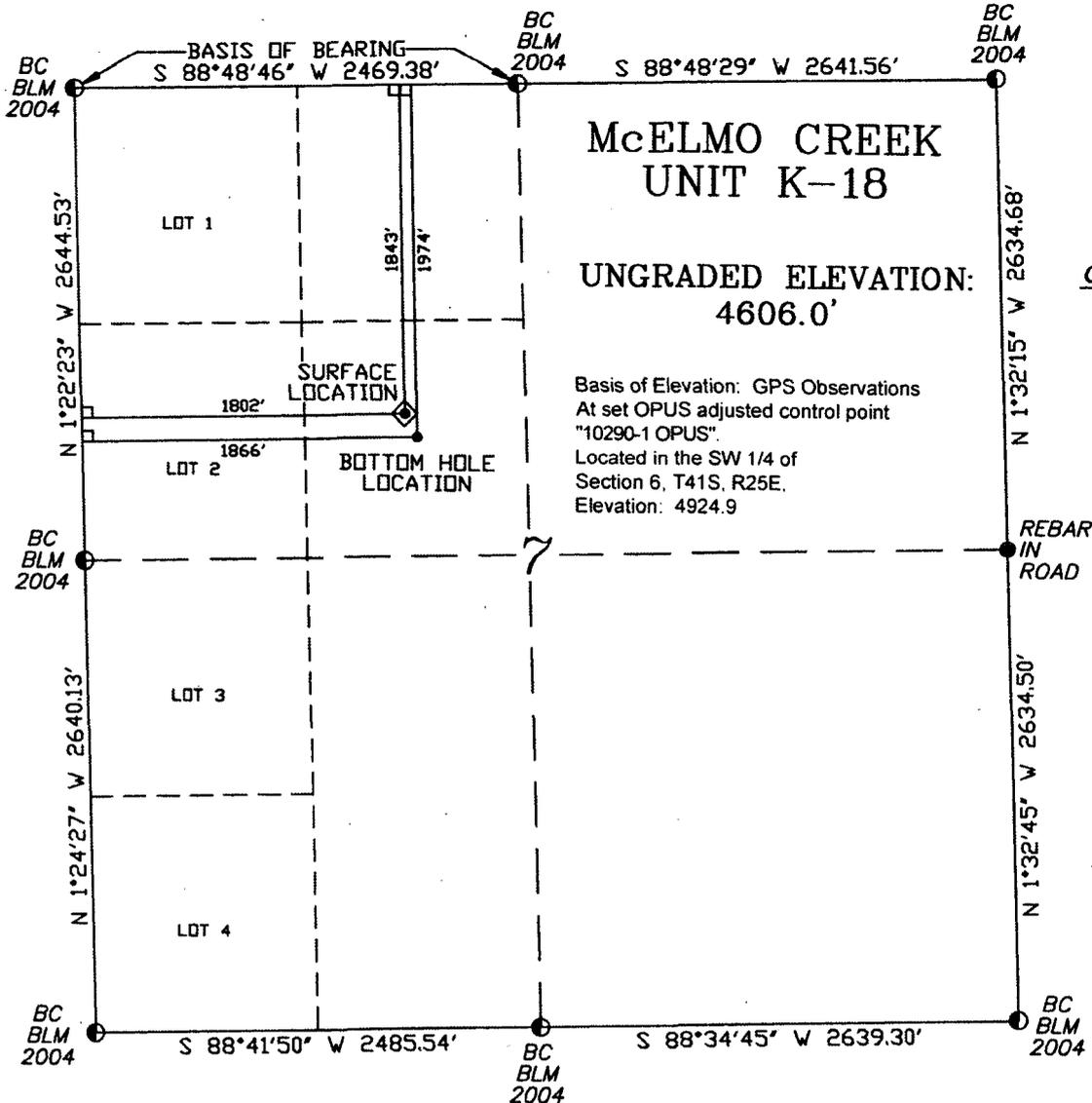
Date: 04-17-13

By: *[Signature]*

**Federal Approval of this
Action is Necessary**

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 4/16/2013	

T. 41 S., R. 25 E., S.L.M.



SCALE: 1" = 1000'
GEO. SURFACE VALUES

LATITUDE (NAD 83)
 NORTH 37.2390072°
LONGITUDE (NAD 83)
 WEST 109.2178494°
LATITUDE (NAD 27)
 NORTH 37.2390100°
LONGITUDE (NAD 27)
 WEST 109.2169802°

NORTHING
 Y = 216508.18
EASTING
 X = 2664571.02

GEO. BOTTOM HOLE VALUES

LATITUDE (NAD 83)
 NORTH 37.2386461°
LONGITUDE (NAD 83)
 WEST 109.2174292°
LATITUDE (NAD 27)
 NORTH 37.2386488°
LONGITUDE (NAD 27)
 WEST 109.2167601°

NORTHING
 Y = 216378.30
EASTING
 X = 2664638.30

DATUM
 UTAH SP SOUTH (1927)

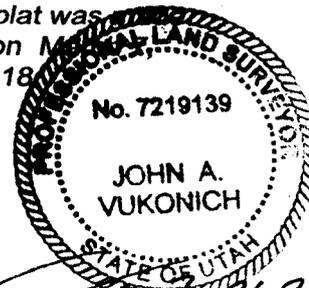
SURVEYOR'S STATEMENT:

I, John A. Vukonich, of Farmington, New Mexico, hereby state: This plat was prepared from notes taken during an actual survey under my direct supervision on March 1, 2013, and it correctly shows the location of McELMO CREEK UNIT K-18.



LEGEND

- ◆ SURFACE WELL LOCATION
- BOTTOM HOLE LOCATION
- FOUND MONUMENT
- FOUND 2004 BLM BRASS CAP
- L DENOTES 90° TIE



John A. Vukonich
 UTAH PLS No. 7219139-2201 DATE 03/18/13

EXHIBIT A

**PLAT OF PROPOSED WELL LOCATION
 FOR
 RESOLUTE NATURAL RESOURCES COMPANY**

**SURFACE: 1843' F/NL & 1802' FWL,
 BOTTOM HOLE: 1974' F/NL & 1866' F/WL,
 SECTION 7, T. 41 S, R. 25 E, SALT LAKE MERIDIAN
 SAN JUAN COUNTY, UTAH**



P.O. BOX 3651
 FARMINGTON, N.M.
 (505) 334-0408

SCALE: 1" = 1000'

JOB No. 10467

DATE: 03/18/13

Sidetrack/Recompletion Notice
McElmo Creek Unit K-18
1843' FNL & 1802' FWL
Sec 7, T41S, R25E
San Juan County, Utah
API 43-037-16357

Recompletion Procedure (Sundry – Notice of Intent)

1. MIRU.
2. NU & Test BOPs
3. PU 9-7/8" bit and directional tools to drill sidetrack according to attached directional plan from appx 1,350' to the Lower Ismay at 5,290'.
4. Run 7", 26# J-55 casing from surface to appx 5,290'.
5. Cement 7" casing from 5,290' to surface using two stage cement job.
 - a) Lead slurry: ~500 sx 12.4 ppg, 1.9 cu ft/sk, 50/50 poz
 - b) Tail slurry: ~ 300 sx 12.4 ppg, 1.88 cu ft/sk, 50/50 poz
6. PU 6-1/8" bit and drill open hole section to TD of 5,600' TVD.
7. Stimulate the open hole section.
8. Install injection tubing with packer
9. Perform witnessed MIT to continue injection
10. RDMOL.
11. Return well to injection.

Job Scope –sidetrack and recomplete Desert Creek IIC via open hole and inject with existing productive intervals.

**ADDITIONAL INFORMATION TO SUPPORT
Sundry – Notice of Intent
Mc Elmo Creek Unit K-18
Sidetrack and Recomplete to Desert Creek – IIC Horizon**

1. Formation Tops

Existing Formation Tops (MD):

Chinle: 1229

Projected Formation Tops (TVD):

Upper Ismay:	5215
Lower Ismay:	5290
Gothic Shale:	5360
Desert Creek 1A:	5372
Desert Creek 1B:	5395
Desert Creek 1C:	5405
Desert Creek IIA:	5422
Desert Creek IIB:	5447
Desert Creek IIC:	5486
Desert Creek III:	5544
Total Depth:	5600 (in Chimney Rock)

2. Wellbore Diagrams –

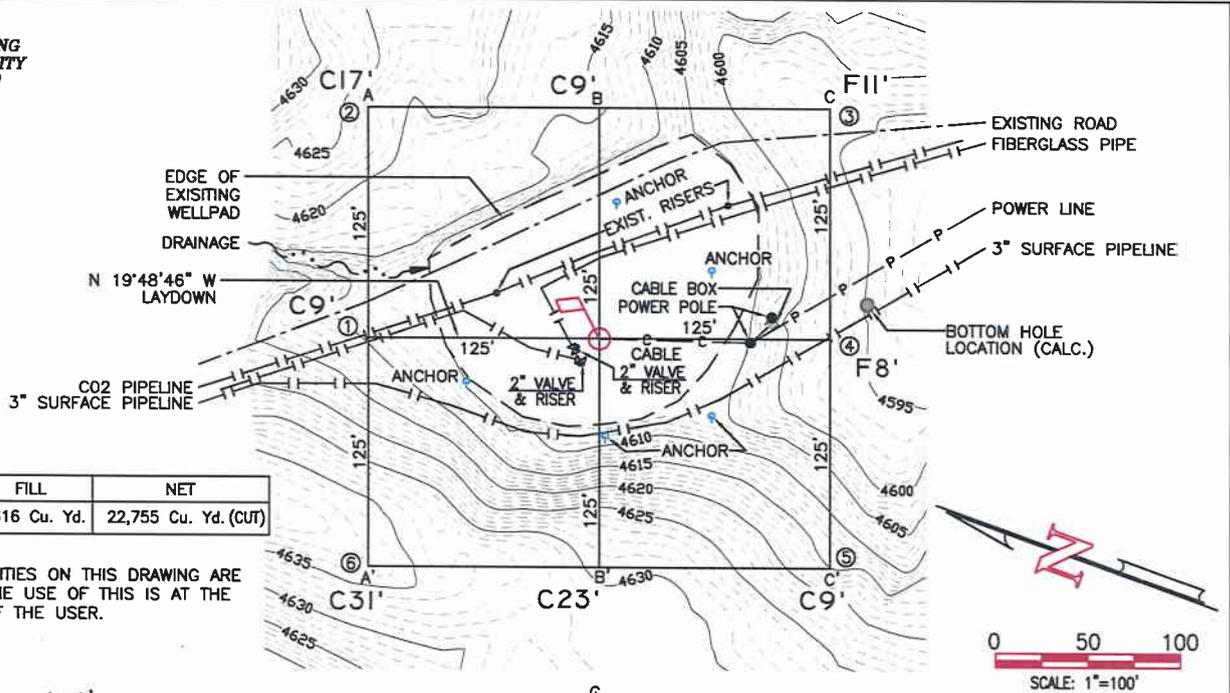
- a) Existing Wellbore Diagram – Attachment No. 1
- b) Proposed Wellbore Diagram – Attachment No. 2

3. BOP Diagram and Equipment Description – Attachment No. 3

4. Drilling Mud Specifications

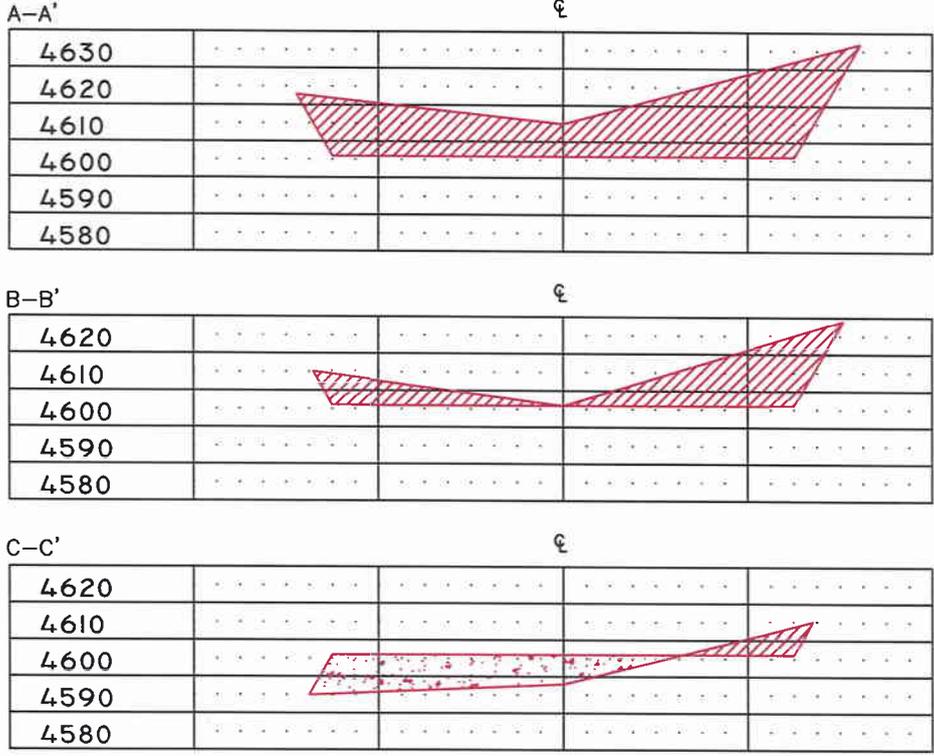
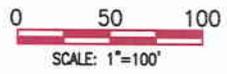
- a) Proposed to drill out / sidetrack with produced water fluid
- b) N2 aerated produced water fluid will be used in OH section
- c) Drilling mud with a salt polymer will be used if required for control of formation pressure during the drilling operations

**BEFORE DIGGING
CALL FOR UTILITY
LINE LOCATION!**



CUT	FILL	NET
26,371 Cu. Yd.	3,616 Cu. Yd.	22,755 Cu. Yd. (CUT)

NOTE:
THE EARTH QUANTITIES ON THIS DRAWING ARE ESTIMATED AND THE USE OF THIS IS AT THE RESPONSIBILITY OF THE USER.



CROSS SECTIONS
HORIZONTAL: 1"=100'
VERTICAL: 1"=50'

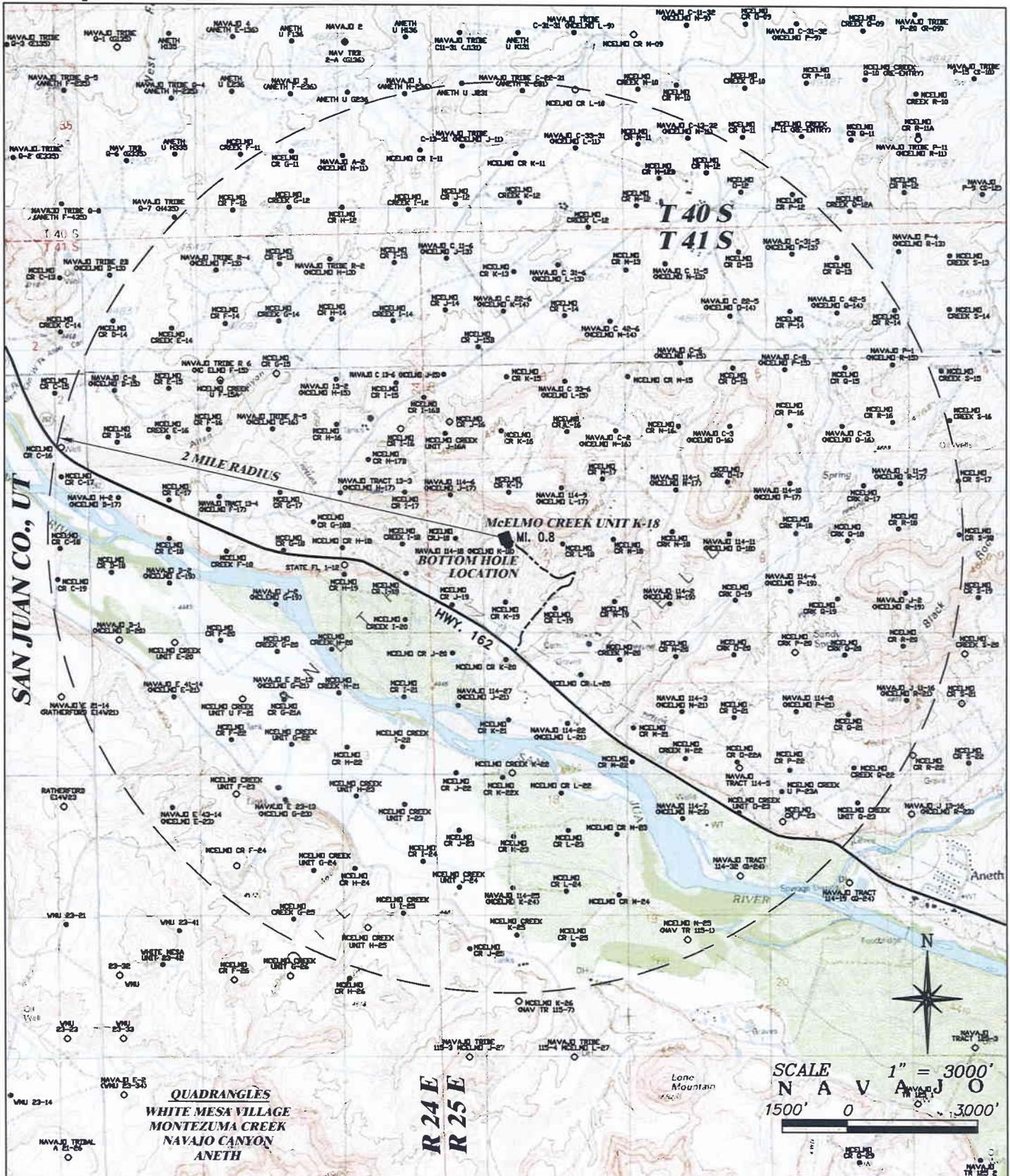
EXHIBIT IA

RESOLUTE
NATURAL RESOURCES

LEASE: McELMO CREEK UNIT K-18
 1843' FNL, 1802' FWL (SURFACE)
 FOOTAGES: 1974' FNL, 1866' FWL (BOTTOM HOLE)
 SEC. 7 TWN. 41 S RNG. 25 E S.L.M.
 LATITUDE: N 37.2390072° LONGITUDE: W 109.2176494°
 ELEVATION: 4606

SURVEYED: 03/07/13	REV. DATE:	APP. BY J.A.V.
DRAWN BY: H.S.	DATE DRAWN: 03/18/13	FILE NAME: 10467C01

P.O. BOX 3651
FARMINGTON, NM 87499
OFFICE: (505) 334-0408



**PROPOSED WELL LOCATION FOR
RESOLUTE NATURAL RESOURCES
McELMO CREEK UNIT K-18**

P.O. BOX 3651
FARMINGTON, N.M.
(505) 334-0408

SCALE: 1" = 3000'
JOB No. 10467
DATE: 03/18/13

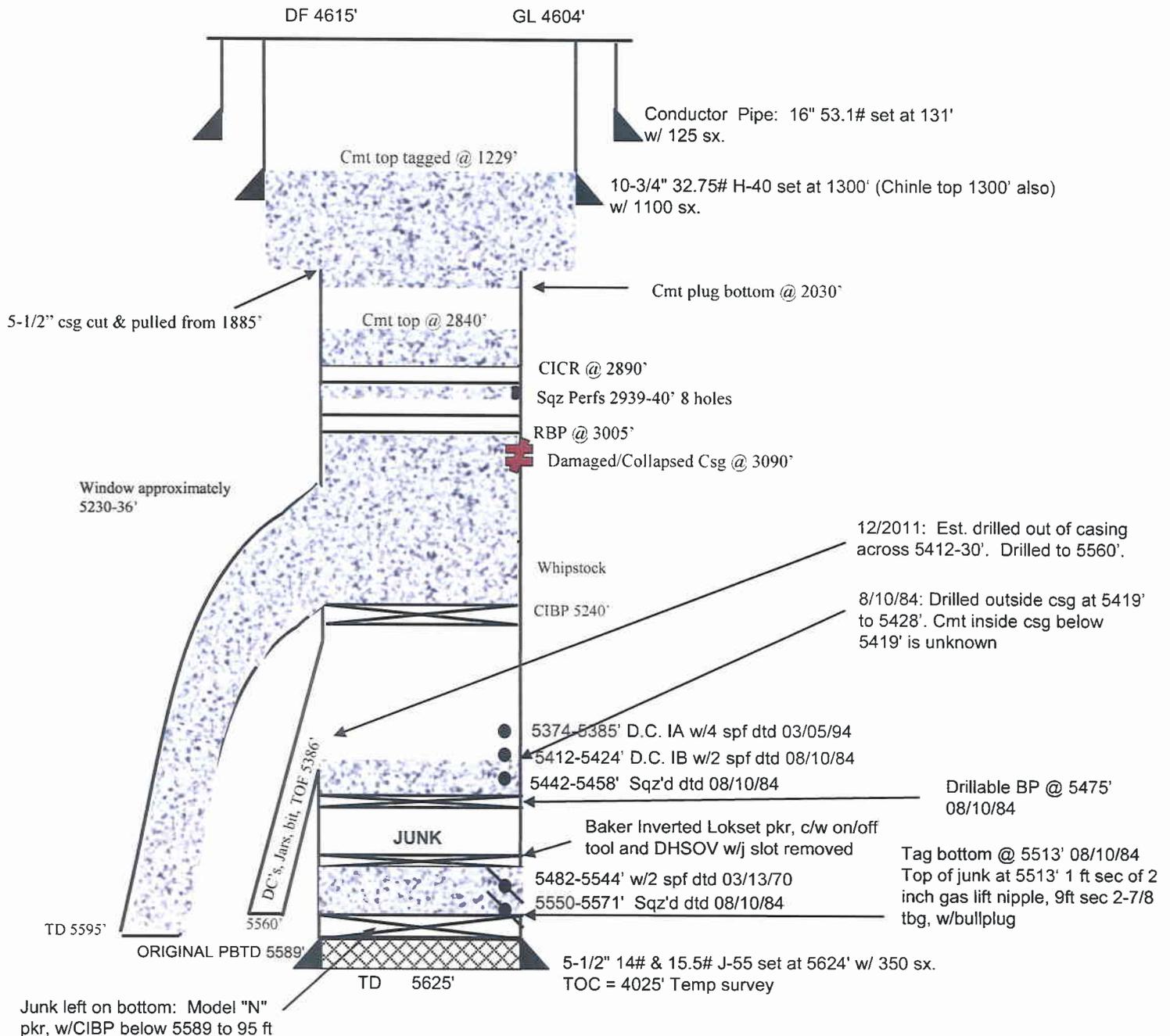
EXISTING ROAD 
ACCESS/EGRESS 

EXHIBIT
2A

McELMO CREEK UNIT # K-18
 GREATER ANETH FIELD
 1843' FNL & 1802' FWL
 SEC 7-T41S-R25E
 SAN JUAN COUNTY, UTAH
 API 43-037-16357
 PRISM 0000280

INJECTOR

**Attachment 1:
 TA'd Wellbore**



McELMO CREEK UNIT # K-18

GREATER ANETH FIELD

1843' FNL & 1802' FWL

SEC 7-T41S-R25E

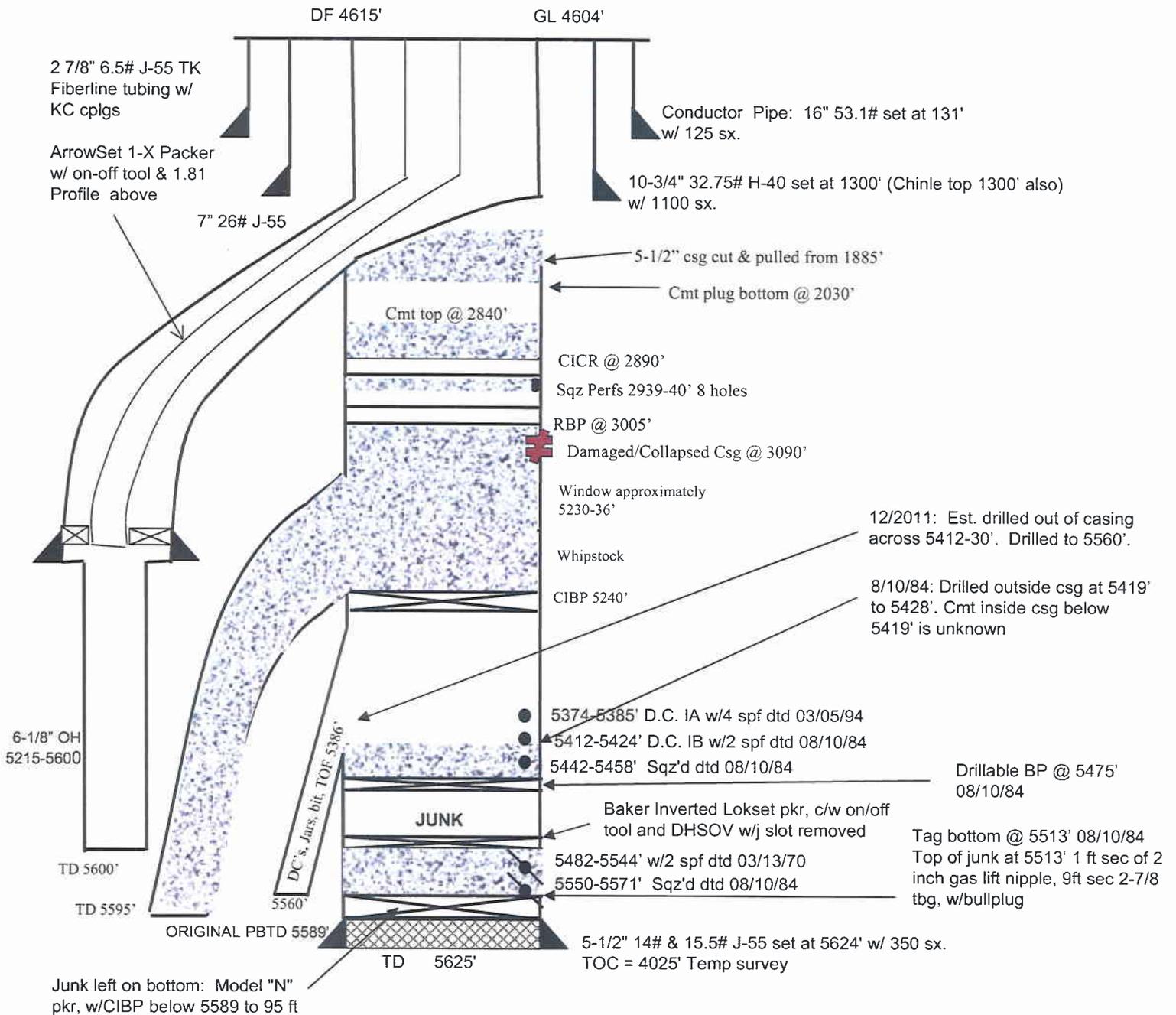
SAN JUAN COUNTY, UTAH

API 43-037-16357

PRISM 0000280

INJECTOR

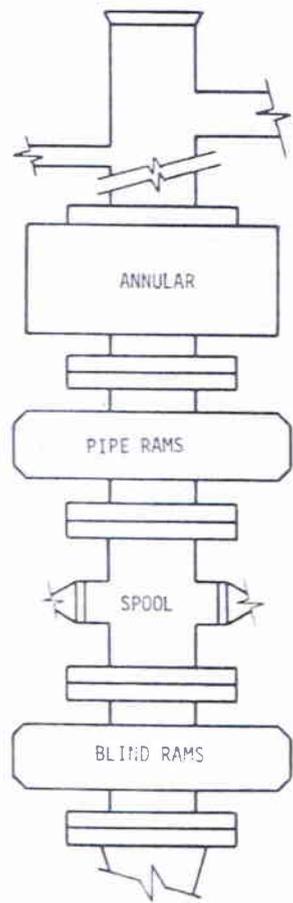
Attachment 2: Proposed Wellbore



G.L.M. 11/01/02

Attachment No. 3

2-7/8 inch pipe rams,
7-1/16 inch x 5000
psig with stainless
steel trim for sour
service operations

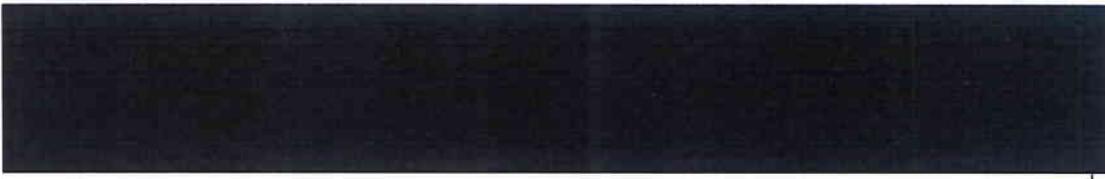


7-1/16 inch x 5000 psig
with stainless steel trim
for sour service operations

7-1/16 inch x 5000 psig
with stainless steel trim
for sour service operations

TYPICAL WORKOVER BOP STACK

Figure 30





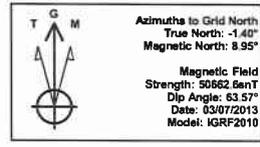
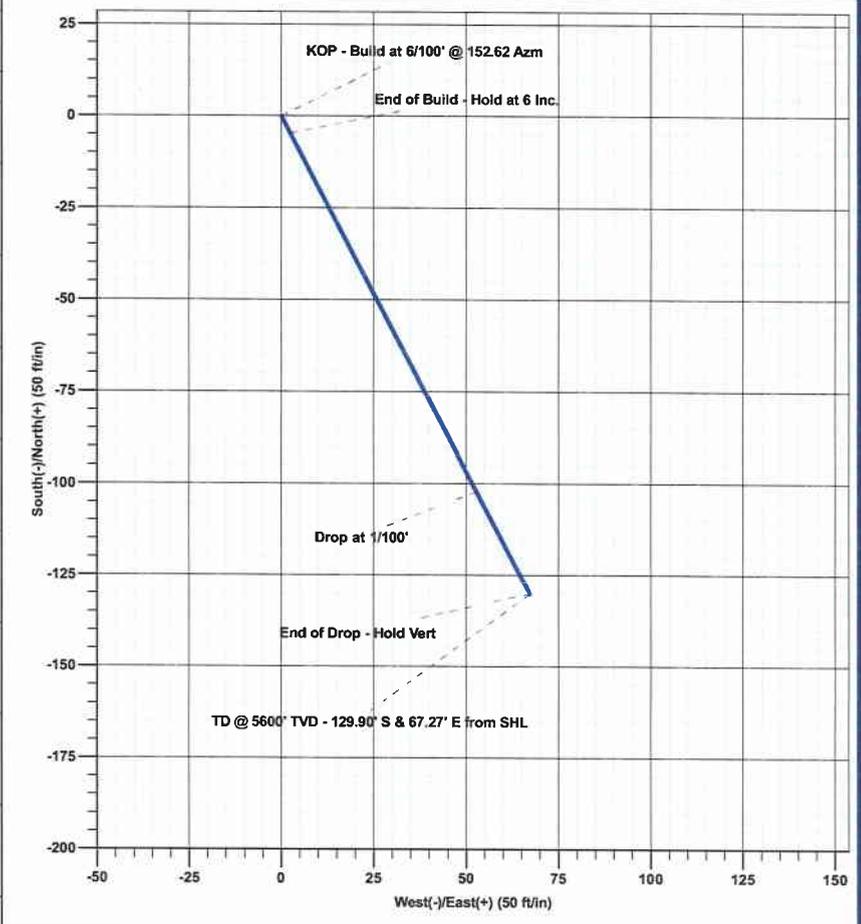
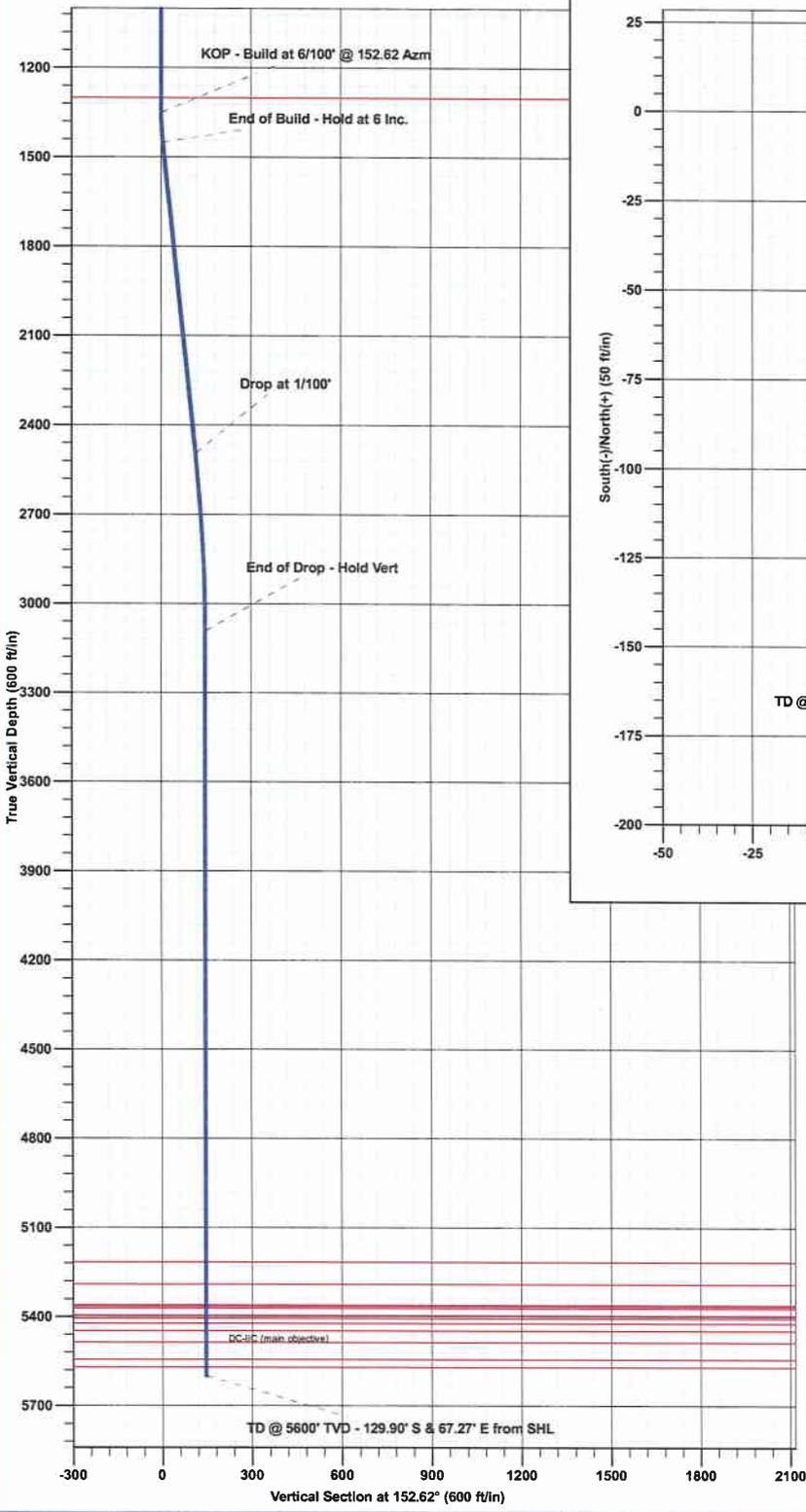
Site: McElmo Creek Unit
 Well: MCU K-18 (2nd ST)
 Wellbore: Wellbore #1
 Design: Design #2

Reference Details - WELL CENTRE
 Geodetic System: US State Plane 1927 (Exact solution)
 Ellipsoid: Clarke 1866
 Zone: Utah South 4303
 Northing: 216509.00
 Easting: 2664580.98
 Latitude: 37.2390100
 Longitude: -109.2169802
 Grid Convergence: 1.40° West
 Ground Elevation: 4604.00
 KB Elevation: WELL @ 4615.00ft (Original Well Elev)



ANNOTATIONS

TVD	MD	Inc	Azi	+N-S	+E-W	Vsect	Departure	Annotation
1350.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP - Build at 6/100' @ 152.62 Azm
1449.82	1450.00	8.00	152.62	-4.65	2.41	5.23	5.23	End of Build - Hold at 6 inc.
2493.22	2499.15	6.00	152.62	-102.03	52.83	114.90	114.90	Drop at 1/100'
3092.12	3099.15	0.00	0.00	-129.90	67.27	146.28	146.28	End of Drop - Hold Vert
5600.00	5607.03	0.00	0.00	-129.90	67.27	146.28	146.28	TD @ 5600' TVD - 129.90° S & 67.27° E from SHL



FORMATION TOP DETAILS		
TVDPATH	MDPATH	Formation
1299.00	1299.00	Chinle
5215.00	5222.03	Upper Ismay
5290.00	5297.03	Lower Ismay
5360.00	5367.03	Gothic
5365.00	5372.03	Gothic LSW
5372.00	5379.03	DC-IA
5395.00	5402.03	DC-IB
5405.00	5412.03	DC-IC
5422.00	5429.03	DC-IIA
5447.00	5454.03	DC-IIB
5486.00	5493.03	DC-IC (main objective)
5544.00	5551.03	DC-II
5570.00	5577.03	Chimney Rock

Resolute

Resolute Natural Resources

**San Juan Co., UT
McElmo Creek Unit
MCU K-18 (2nd ST)**

Wellbore #1

Plan: Design #2

Standard Planning Report

13 April, 2013



Resolute

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MCU K-18 (2nd ST)
Company:	Resolute Natural Resources	TVD Reference:	WELL @ 4615.00ft (Original Well Elev)
Project:	San Juan Co., UT	MD Reference:	WELL @ 4615.00ft (Original Well Elev)
Site:	McElmo Creek Unit	North Reference:	Grid
Well:	MCU K-18 (2nd ST)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project	San Juan Co., UT		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah South 4303		

Site	McElmo Creek Unit				
Site Position:		Northing:	216,548.41 ft	Latitude:	37.2391200
From:	Lat/Long	Easting:	2,664,553.86 ft	Longitude:	-109.2170700
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	1.40 °

Well	MCU K-18 (2nd ST)					
Well Position	+N/-S	-39.41 ft	Northing:	216,509.00 ft	Latitude:	37.2390099
	+E/-W	27.11 ft	Easting:	2,664,580.98 ft	Longitude:	-109.2169802
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,604.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	03/07/13	(°) 10.35	(°) 63.57	(nT) 50,663

Design	Design #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	152.62

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,450.00	6.00	152.62	1,449.82	-4.65	2.41	6.00	6.00	0.00	152.62	
2,499.15	6.00	152.62	2,493.22	-102.03	52.83	0.00	0.00	0.00	0.00	
3,099.15	0.00	0.00	3,092.12	-129.90	67.27	1.00	-1.00	0.00	180.00	
5,607.03	0.00	0.00	5,600.00	-129.90	67.27	0.00	0.00	0.00	0.00	0.00 MCU K-18 BHL

RECEIVED: Apr. 16, 2013



Database: EDM 5000.1 Single User Db
 Company: Resolute Natural Resources
 Project: San Juan Co., UT
 Site: McElmo Creek Unit
 Well: MCU K-18 (2nd ST)
 Wellbore: Wellbore #1
 Design: Design #2

Local Co-ordinate Reference: Well MCU K-18 (2nd ST)
 TVD Reference: WELL @ 4615.00ft (Original Well Elev)
 MD Reference: WELL @ 4615.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
KOP - Build at 6/100' @ 152.62 Azm										
1,400.00	3.00	152.62	1,399.98	-1.16	0.60	1.31	6.00	6.00	0.00	
1,450.00	6.00	152.62	1,449.82	-4.65	2.41	5.23	6.00	6.00	0.00	
End of Build - Hold at 6 Inc.										
1,500.00	6.00	152.62	1,499.54	-9.29	4.81	10.46	0.00	0.00	0.00	
1,600.00	6.00	152.62	1,599.00	-18.57	9.62	20.91	0.00	0.00	0.00	
1,700.00	6.00	152.62	1,698.45	-27.85	14.42	31.36	0.00	0.00	0.00	
1,800.00	6.00	152.62	1,797.90	-37.13	19.23	41.82	0.00	0.00	0.00	
1,900.00	6.00	152.62	1,897.35	-46.41	24.04	52.27	0.00	0.00	0.00	
2,000.00	6.00	152.62	1,996.80	-55.70	28.84	62.72	0.00	0.00	0.00	
2,100.00	6.00	152.62	2,096.26	-64.98	33.65	73.17	0.00	0.00	0.00	
2,200.00	6.00	152.62	2,195.71	-74.26	38.46	83.63	0.00	0.00	0.00	
2,300.00	6.00	152.62	2,295.16	-83.54	43.26	94.08	0.00	0.00	0.00	
2,400.00	6.00	152.62	2,394.61	-92.83	48.07	104.53	0.00	0.00	0.00	
2,499.15	6.00	152.62	2,493.22	-102.03	52.83	114.90	0.00	0.00	0.00	
Drop at 1/100'										
2,500.00	5.99	152.62	2,494.07	-102.11	52.88	114.99	1.00	-1.00	0.00	
2,600.00	4.99	152.62	2,593.61	-110.61	57.28	124.56	1.00	-1.00	0.00	
2,700.00	3.99	152.62	2,693.30	-117.56	60.88	132.39	1.00	-1.00	0.00	
2,800.00	2.99	152.62	2,793.11	-122.97	63.68	138.48	1.00	-1.00	0.00	
2,900.00	1.99	152.62	2,893.01	-126.83	65.68	142.82	1.00	-1.00	0.00	
3,000.00	0.99	152.62	2,992.98	-129.14	66.87	145.43	1.00	-1.00	0.00	
3,099.15	0.00	0.00	3,092.12	-129.90	67.27	146.28	1.00	-1.00	0.00	
End of Drop - Hold Vert										
3,100.00	0.00	0.00	3,092.97	-129.90	67.27	146.28	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,192.97	-129.90	67.27	146.28	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,292.97	-129.90	67.27	146.28	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,392.97	-129.90	67.27	146.28	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,492.97	-129.90	67.27	146.28	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,592.97	-129.90	67.27	146.28	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,692.97	-129.90	67.27	146.28	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,792.97	-129.90	67.27	146.28	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,892.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,000.00	0.00	0.00	3,992.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,092.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,192.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,292.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,392.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,492.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,592.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,692.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,792.97	-129.90	67.27	146.28	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,892.97	-129.90	67.27	146.28	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,992.97	-129.90	67.27	146.28	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,092.97	-129.90	67.27	146.28	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,192.97	-129.90	67.27	146.28	0.00	0.00	0.00	
5,222.03	0.00	0.00	5,215.00	-129.90	67.27	146.28	0.00	0.00	0.00	
Upper Ismay										
5,297.03	0.00	0.00	5,290.00	-129.90	67.27	146.28	0.00	0.00	0.00	
Lower Ismay										
5,300.00	0.00	0.00	5,292.97	-129.90	67.27	146.28	0.00	0.00	0.00	
5,367.03	0.00	0.00	5,360.00	-129.90	67.27	146.28	0.00	0.00	0.00	

Resolute

Planning Report



Database: EDM 5000.1 Single User Db
 Company: Resolute Natural Resources
 Project: San Juan Co., UT
 Site: McElmo Creek Unit
 Well: MCU K-18 (2nd ST)
 Wellbore: Wellbore #1
 Design: Design #2

Local Co-ordinate Reference: Well MCU K-18 (2nd ST)
 TVD Reference: WELL @ 4615.00ft (Original Well Elev)
 MD Reference: WELL @ 4615.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Gothic									
5,372.03	0.00	0.00	5,365.00	-129.90	67.27	146.28	0.00	0.00	0.00
Gothic LSW									
5,379.03	0.00	0.00	5,372.00	-129.90	67.27	146.28	0.00	0.00	0.00
DC-IA									
5,400.00	0.00	0.00	5,392.97	-129.90	67.27	146.28	0.00	0.00	0.00
5,402.03	0.00	0.00	5,395.00	-129.90	67.27	146.28	0.00	0.00	0.00
DC-IB									
5,412.03	0.00	0.00	5,405.00	-129.90	67.27	146.28	0.00	0.00	0.00
DC-IC									
5,429.03	0.00	0.00	5,422.00	-129.90	67.27	146.28	0.00	0.00	0.00
DC-IIA									
5,454.03	0.00	0.00	5,447.00	-129.90	67.27	146.28	0.00	0.00	0.00
DC-IIB									
5,493.03	0.00	0.00	5,486.00	-129.90	67.27	146.28	0.00	0.00	0.00
DC-IC (main objective)									
5,500.00	0.00	0.00	5,492.97	-129.90	67.27	146.28	0.00	0.00	0.00
5,551.03	0.00	0.00	5,544.00	-129.90	67.27	146.28	0.00	0.00	0.00
DC-III									
5,577.03	0.00	0.00	5,570.00	-129.90	67.27	146.28	0.00	0.00	0.00
Chimney Rock									
5,600.00	0.00	0.00	5,592.97	-129.90	67.27	146.28	0.00	0.00	0.00
5,607.03	0.00	0.00	5,600.00	-129.90	67.27	146.28	0.00	0.00	0.00
TD @ 5600' TVD - 129.90' S & 67.27' E from SHL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
MCU K-18 BHL	0.00	0.00	5,600.00	-129.90	67.27	216,379.10	2,664,648.24	37.2386487	-109.2167601
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Resolute

Planning Report



Database: EDM 5000.1 Single User Db
Company: Resolute Natural Resources
Project: San Juan Co., UT
Site: McElmo Creek Unit
Well: MCU K-18 (2nd ST)
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well MCU K-18 (2nd ST)
TVD Reference: WELL @ 4615.00ft (Original Well Elev)
MD Reference: WELL @ 4615.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,299.00	1,299.00	Chinle				
5,222.03	5,215.00	Upper Ismay				
5,297.03	5,290.00	Lower Ismay				
5,367.03	5,360.00	Gothic				
5,372.03	5,365.00	Gothic LSW				
5,379.03	5,372.00	DC-IA				
5,402.03	5,395.00	DC-IB				
5,412.03	5,405.00	DC-IC				
5,429.03	5,422.00	DC-IIA				
5,454.03	5,447.00	DC-IIB				
5,493.03	5,486.00	DC-IIC (main objective)				
5,551.03	5,544.00	DC-III				
5,577.03	5,570.00	Chimney Rock				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,350.00	1,350.00	0.00	0.00	KOP - Build at 6/100' @ 152.62 Azm	
1,450.00	1,449.82	-4.65	2.41	End of Build - Hold at 6 Inc.	
2,499.15	2,493.22	-102.03	52.83	Drop at 1/100'	
3,099.15	3,092.12	-129.90	67.27	End of Drop - Hold Vert	
5,607.03	5,600.00	-129.90	67.27	TD @ 5600' TVD - 129.90° S & 67.27° E from SHL	

Sundry Number: 36773 API Well Number: 43037163570000

McClure and Heatherford Water Well

Well No.	DWP No.	WUP # 1956	WUP # 1997	Sec-Twp-Rg	GPS Coordinates		East (1986)	North (1995)	Appl #	Completed	Comments
1	PIT	95-529	97-223	18-41S-26E			668990	4121100			Abandoned
2	12-0715	95-530	97-201	17-41S-25E	37° 13' 226" N	109° 12' 747" N	659410	4120950	29718 A3777	9/14/61	
3	12-0716	95-531	97-202	17-41S-25E	37° 13' 106" N	019° 12' 187" N	659580	4120480	29718 A3777	10/3/61	
4	12-0717	95-532	97-203	17-41S-25E	37° 13' 106" N	019° 12' 142" N	659580	4120570	29718 A3777	10/17/61	
5	12-0718	95-533	97-204	17-41S-25E	37° 13' 132" N	019° 12' 098" N	659630	4120400	29718 A3777	10/19/61	
6	12-0719	95-534	97-205	17-41S-25E	37° 13' 090" N	019° 12' 053" N	659690	4120890	31023 A 3777	4/20/62	
7	12-0720	95-512	97-206	17-41S-25E	37° 13' 056" N	019° 12' 032" N	659725	4120325	31023 A 3777	4/30/62	
8	12-0721	95-513	97-207	17-41S-25E	37° 13' 023" N	019° 12' 980" N	659800	4120265	31023 A 3777	5/4/62	
9	12-0722	95-514	97-208	17-41S-25E	37° 13' 010" N	109° 11' 932" N	659880	4120230	31023 A 3777	5/8/62	
10	12-0723	95-515	97-209	17-41S-25E	37° 12' 906" N	109° 11' 866" N	659960	4120270	31023 A 3777	5/12/62	
11	12-0724	95-516	97-210	17-41S-25E	37° 12' 803" N	109° 11' 809" N	660060	4120210	29718 31023	11/28/62	
12	12-0725	95-517	97-211	17-41S-25E	37° 13' 028" N	109° 11' 768" N	660125	4120270	29718 A 3777	12/5/62	Not in Service, no pump
13	12-0726	95-518	97-212	18-41S-25E	37° 13' 432" N	109° 12' 415" N	659145	4121010	29718 31023	12/9/62	
14	12-0727	95-519	97-213	18-41S-25E	37° 13' 436" N	109° 12' 473" N	659045	4121010	A-31023	12/12/62	
15	12-0728	95-520	97-214	17-41S-25E	37° 13' 404" N	109° 12' 365" N	659230	4120960	A-31023	12/28/62	
16	12-0729	95-521	97-215	17-41S-25E	37° 13' 381" N	109° 12' 341" N	659265	4120870	A-31023	1/5/63	
17	12-0730	95-522	97-216	17-41S-25E	37° 13' 312" N	109° 12' 325" N	659285	4120785	A-31023	1/12/63	
18	12-0731	95-523	97-217	17-41S-25E	37° 13' 027" N	109° 12' 894" N	659640	4120770	29718 A3777	4/5/63	
19	12-0732	95-524	97-218	17-41S-25E	37° 13' 002" N	109° 12' 800" N	659825	4120230	29718 A3777	4/10/63	
20	12-0733	95-525	97-219	17-41S-25E	37° 13' 062" N	109° 12' 994" N	659780	4120335	29718 A3777	4/17/63	
21	12-0734	95-526	97-220	17-41S-25E	37° 13' 013" N	109° 12' 935" N	659835	4120240	29718	4/19/63	
22	12-0735	95-527	97-221	17-41S-25E	37° 13' 030" N	109° 12' 016" N	659750	4120278	A3777 29718	4/22/63	Community
O-24	12-0736	95-528	97-222	17-41S-25E	37° 13' 475" N	109° 12' 504" N	659815	4120300		3/14/64	former oil well. MCU O-24, 13-3/8" surf. 5-5/8" prod. cs.gs. 1200' deep, out of service since 1975, needs P&A

Sundry Number: 36773 API Well Number: 43037163570000

Ratherford and Ratherford Water Wells

Well No.	DWFP No.	WUP # 1996	WUP # 1997	Sec-Twp-Rg	GPS Coordinates		East (1983)	North (1985)	Appl #	Completed	Comments
Ratherford											
1	09-0614	96-496	97-224	5-41S-24E	37° 15.333' N	109° 17.803' W	650740	4124360	32-773	11/21/61	
2	09-0615	96-497	97-225	5-41S-24E	37° 15.330' N	109° 17.865' W	650760	4124380	32-773	11/28/61	
3	09-0616	96-498	97-226	5-41S-24E	37° 15.332' N	109° 17.928' W	650380	4124380	32-733	12/2/61	
4	09-0617	96-499	97-227	5-41S-24E	37° 15.331' N	109° 17.900' W	650470	4124380	32-733	12/3/62	
5	09-0618	96-500	97-228	5-41S-24E	37° 15.335' N	109° 17.835' W	650650	4124390	32-733	12/11/62	
6	09-0619	96-501	97-229	5-41S-24E	37° 15.349' N	109° 17.776' W	650840	4124380	32-733	12/28/62	
7	09-0620	96-502	97-230	5-41S-24E	37° 15.363' N	109° 17.750' W	650900	4124380	32-733	12/15/62	
8	09-0621	96-503	97-231	5-41S-24E	37° 15.365' N	109° 17.720' W	651040	4124380	32-733	12/21/62	
9	09-0622	96-502	97-232	5-41S-24E	37° 15.360' N	109° 17.689' W	651120	4124400	32-733	12/27/62	
10	09-0623	96-504	97-233	5-41S-24E	37° 15.364' N	109° 17.650' W	651205	4124425	32-733	1/2/63	
11	09-0624	96-505	97-234	5-41S-24E	37° 15.365' N	109° 17.627' W	651290	4124430	32-733	1/5/63	
13	09-0625	96-506	97-235	5-41S-24E	37° 15.364' N	109° 17.545' W	651470	4124430	32-733	1/5/63	
14	09-0626	96-507	97-236	5-41S-24E	37° 15.367' N	109° 17.506' W	651560	4124430	32-733	1/16/63	
15	09-0627	96-508	97-237	5-41S-24E	37° 15.368' N	109° 17.464' W	651640	4124430	32-733	2/3/63	
16	09-0628	96-509	97-238	5-41S-24E	37° 15.373' N	109° 17.421' W	651760	4124460	32-733	2/4/63	
17	09-0629	96-510	97-239	5-41S-24E	37° 15.374' N	109° 17.381' W	651840	4124480	32-733	2/6/63	
14-33	09-0642	96-511	97-240	5-41S-24E	37° 15.389' N	109° 17.560' W	644860	4119050			Water well abandoned 05-01-1998. Cof & Capped

Summary	35	operated wells								
	2	not prod	96-528	96-517						
	2	aband	96-529	96-511						
	1	NTU	96-527							
	40	Total Wells in list in RCMA-55-06, WUP 96-416 to 96-428 & 96-202								

Additional Unlisted Wells at Ratherford	Sec-Twp-Rg	GPS Coordinates		Appl #	Completed	Comments
19		5-41S-24E	37° 15.217' N 109° 16.769' W	32-773	4/22/64	In service
20		5-41S-24E	37° 15.220' N 109° 16.688' W	32-773	4/14/64	In Service
22		5-41S-24E	37° 15.219' N 109° 16.632' W	32-773		Operable, but has power problems
23		5-41S-24E	37° 15.228' N 109° 17.014' W	32273	4/20/64	Operable, but has power problems
	4	Additional unlisted wells				

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/16/2013

API NO. ASSIGNED: 43-037-16357

WELL NAME: NAVAJO 114-18 (MCELMO K-18)
 OPERATOR: RESOLUTE NATURAL (N2700)
 CONTACT: SHERRY GLASS

PHONE NUMBER: 303-573-4886

PROPOSED LOCATION:

SENW 07 410S 250E
 SURFACE: 1843 FNL 1802 FWL
 BOTTOM: 1974 FNL 1866 ~~EEL~~ FWL
 COUNTY: SAN JUAN
 LATITUDE: 37.23909 LONGITUDE: -109.21770
 UTM SURF EASTINGS: 658091 NORTHINGS: 4122885
 FIELD NAME: GREATER ANETH (365)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2 - Indian
 LEASE NUMBER: 14-20-603-263
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: DSCR
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[2] Sta[] Fee[]
(No. PA002769)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 12-0715)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- ___ R649-2-3.
- Unit: MCELMO CREEK *br*
- ___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- ___ R649-3-3. Exception
- Drilling Unit
Board Cause No: 152-09
Eff Date: 8-27-2003
Siting: Suspends General Siting
- ___ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: 1- Federal Approval
2- Directional



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

April 17, 2013

Resolute Natural Resources
1675 Broadway, Ste 1950
Denver, CO 80202

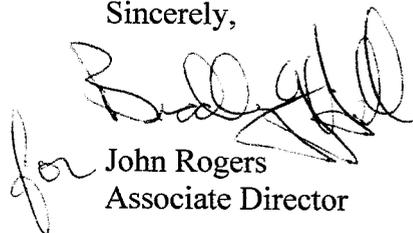
Subject: Navajo 114-18 (McElmo K-18) Well, 1843' FNL, 1802' FWL, SE NW, Sec. 7, T. 41 South, R. 25 East, Bottom Location 1974' FNL, 1866' FWL, SE NW, Sec. 7, T. 41 South, R. 25 East, San Juan County, Utah

Ladies and Gentlemen:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause: 152-09. The expected producing formation or pool is the DESERT CREEK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-16357.

Sincerely,


for John Rogers
Associate Director

JR/js
Enclosures

cc: San Juan County Assessor
Bureau of Land Management, Monticello Office

Operator: Resolute Natural Resources
Well Name & Number Navajo 114-18 (McElmo K-18)
API Number: 43-037-16357
Lease: 14-20-603-263

Location: SE NW **Sec. 7** **T. 41 South** **R. 25 East**
Bottom Location: SE NW **Sec. 7** **T. 41 South** **R. 25 East**

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please let a voicemail message if not available)

OR

Submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office
(801) 733-0983 after office hours

3. Reporting Requirements

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-263
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
		7. UNIT or CA AGREEMENT NAME: MCELMO CREEK
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: NAVAJO 114-18 (MCELMO K-18)	
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037163570000	
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202	PHONE NUMBER: 303 534-4600 Ext	9. FIELD and POOL or WILDCAT: GREATER ANETH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1843 FNL 1802 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 07 Township: 41.0S Range: 25.0E Meridian: S	COUNTY: SAN JUAN	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/11/2013 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
OTHER: <input type="text" value="return to injection"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Resolute recompleted/deepened the MCU K-18 to a TVD of 5615'. Attached is complete job summary. Completion report with WBD, final procedure summation and directional survey is filed separately. Well was returned to injection on 7-11-13.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 25, 2013		
NAME (PLEASE PRINT) Shery Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 7/24/2013	



Daily Job Report

Well Name: Mcelmo Cr K18

API Number 43037163570000	Section 7	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah
Ground Elevation (ft) 4,606.00	Casing Flange Elevation (ft) 4,602.00	KB-Ground Distance (ft) 10.00	KB-Casing Flange Distance (ft) 14.00	Well Spud Date/Time 5/28/2013 00:00	Rig Release Date/Time 6/15/2013 06:00	

Job Category Drilling	Primary Job Type Drilling - re-entry	Secondary Job Type
Start Date 5/28/2013	End Date	AFE Number 10013051

Report Number	Start Date	End Date	Summary
1	5/14/2013	5/14/2013	Hauled all equipment to be used at K-18 for Location Prep
2	5/15/2013	5/15/2013	Extend location and move dirt around at K-18
3	5/16/2013	5/16/2013	Load and haul dirt from K-18 to M-12 mcu CO@ Plant
4	5/17/2013	5/17/2013	Take fence down and move SW 80', load and haul rock and dirt mix from K-18
5	5/18/2013	5/18/2013	Load and haul dirt and cut down location at K-18
6	5/19/2013	5/19/2013	Load and haul from location from K-18
7	5/20/2013	5/20/2013	Cut location load and haul dirt, water down road and location and grade
8	5/21/2013	5/21/2013	Cut Location, grade, load and haul dirt
9	5/22/2013	5/22/2013	Cut location to grade, load and haul dirt, water down road and location
10	5/28/2013	5/29/2013	Safety meeting, MIRU, spot equipment, stand derrick, derrick up @ 1100 am, rigging up NU BOP, hydrill, choke manifold.
11	5/29/2013	5/30/2013	Ran hard lines f/choke manifold to flow tank, cut and weld on flow line. Test BOP, hydril, choke manifold, 500 psi low 5 mins, 1500 psi high f/10 mins. Tried to test surface pipe, blew wellhead off @ 1230 psi. Started RD to move equipment out of the way to put on new wellhead.
12	5/30/2013	5/31/2013	Dawn Trucking moved out equipment, dug out around well head, cut off conductor pipe, cut off surface pipe, installed new surface pipe w/3k wellhead. Backfilled hole around surface, WO daylight to re-set equipment.
13	5/31/2013	6/1/2013	safety meeting w/rig crew dawn trucks, reset equipment, stand derrick up @ 08:30 continue r/u, n/u bop, got two hole off a little when welding new head on but was able to make every thing bolt up, pressure test bop, 500 psi low f/5 mins low, 1300 psi f/10 min high, surface pipe 500 psi low f/5 mins, 1000 psi f/5 mins, 1300 psi f/10 mins all test good. p/u, m/u swivel, dril rat & mouse hole, mu/bha, p/u 2-6 1/4 d/c & 38-jts 4-1/2 whdp go in hole tag cmt @ 1225, dril cmt
14	6/1/2013	6/2/2013	safety meeting w/rig crew drlg cmt f/1225 to 1354', circ tooh, l/d 2-6.1/4 d/c, strap new bha, safety meeting w/measwest on p/u down hole tools, p/u m/u directional bha, tih drlg f/1354 to 1385 as per mesawest orders. time drlg f/1385 to 1409, control drlg f/1409 to 1470.
15	6/2/2013	6/3/2013	Safety meeting w/crew, continue drlg/sliding f/1470' to 1754'. TOO, Grant rotating head leaking, replace head. MU new BHA, TIH to 1754', no fill. Drlg/sliding f/1754' to 1844', ROP 90'/hr.
16	6/3/2013	6/4/2013	Safety meeting w/ rig crew, drlg/sliding f/1844' to 2158', change out roll off, drill/slide f/2158' to 2722', avg 38 FPH.
17	6/4/2013	6/5/2013	Safety meeting w/rig crew, continue drlg/sliding f/2722' to 3492', change out roll off.
18	6/5/2013	6/6/2013	Safety meeting w/rig crew - handling casing off truck. Continue drlg/sliding f/3492' - 4183', in vertical section of intermediate hole after drlg/sliding to 3600'. Ran surveys every jt until 3800' then started surveys every 100'. Made 691' of new hole, avg ROP 29 fph, final survey @ report time 4078' .50 deg, direction 132.50
19	6/6/2013	6/7/2013	Safety meeting w/crew, BOP drill, continue drlg f/4183' - 4757', made 574' of hole, avg 24 fph.
20	6/7/2013	6/8/2013	Safety meeting w/crew, housekeeping rig floor, continue drilling f/4757' -5256', delivered 400 bbl standup tank & filled w/fresh H2o for cement job, have csg crew & Halliburton on will call.
21	6/8/2013	6/9/2013	Safety meeting w/crew, laying down pipe, continue drlg f/5256' - 5379' TD of 7" intermediate. Ran 2 poly sweeps @ 5380', circ bottoms up 2x, LD drill string. RU csg crew, ran float shoe, 1 jt 7" csg, float collar, 66 jts 7" csg, DV tool, 58 jts 7" csg, 1 - 7" 20' pup jt.
22	6/9/2013	6/10/2013	Safety meeting w/crew staying clear of tools on floor. Continue running csg to TD 5379'. PU 1' off bottom & circ w/mud. RU Hbton cement crew, cmt 1st stage, bumped plug @ 1430, open DV tool & circ 6 hrs w/mud. Ru Hbton for 2nd stg, pumped 2nd stage returned 60 bbls cmt to surface, bumped plug @ 2230 hrs. RD Hbton, start ND of BOP stack. WOC 2 hrs before 7" cutoff & 7" B section by WSI. NU BOP stack, set 2 7/8" plug in WH. PT BOP 250 low/3000 high, PT 7" csg 1500#. Spot in 3 1/2" DP baskets & 3 1/2" HWDP on racks.
23	6/10/2013	6/11/2013	Safety meeting w/ rig crew, pressure testing BOP. Continue NU, had to change hard lines coming off choke manifold. Test BOP, test pipe rams 500 psi f/5 mins, 3000 psi high f/10 mins. Test annular 500 psi low f/5 mins, 1500 psi high f/ 10 mins. Test csg 500 psi f/5 mins 1500 psi f/30 mins all tested good. Cut and weld on flowline, strap 3-1/2 whdp, RIH w/same. PU 50 jts 3-1/2" DP, strapped & RIH. Kelly up, break circ, tag cmt @ 2492', dv tool @ 2511'. Drlg cmt & DV tool, hang kelly, 90 more jts 3-1/2" DP out of basket. Strap & RIH w/same, tagged FC @ 5324', TOO, H f/CBL.



Daily Job Report

Well Name: Mcelmo Cr K18

API Number 43037163570000	Section 7	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah
Ground Elevation (ft) 4,606.00	Casing Flange Elevation (ft) 4,602.00	KB-Ground Distance (ft) 10.00	KB-Casing Flange Distance (ft) 14.00	Well Spud Date/Time 5/28/2013 00:00	Rig Release Date/Time 6/15/2013 06:00	

Report Number	Start Date	End Date	Summary
24	6/11/2013	6/12/2013	Safety meeting w/ rig crew on tripping pipe. Continue TOOH f/CBL, safety meeting w/Blue Jet. RU, run CBL, RD Blue Jet, released. Move mud f/rig pits to 400 bbl frac tank to make room for production fluid to drlg production zone. Fill pits w/400 bbls of production fluid. TIH to FC while waiting on truck to fill pits. Displace 200 bbls mud out of wellbore, hauled 350 bbls mud to plant. Drlg FC & shoe, drlg f/5379' to 5615' TD. Called by Jason Burris, TD well @ 05:30.
25	6/12/2013	6/13/2013	Circ hole clean, LD 8 jts DP up to shoe, wait on information on RBP. Had to use Weatherford, Baker didn't have anyone to set RBP. LD 87 jts DP, TOOH, break kelly. Got all but 3 stds out of hole and well started kicking. Called Donnie Trimble and was told to run pipe back in hole to try to top kill well. Transferred production water out of pits and replaced w/200 bbls 10 lb brine. Pumped 130 bbls down hole, got back approx 2 bbls of oil and alot of gas, 2450 units. Continue circ for 30 mins, killed pumps. Check for flowing well, still kicking. Tried to get a stand pipe pressure but didn't have any pressure change. Gauge f/3000 psi to a 300 psi gauge, no pressure. Took gauge off to see if anything was plugged off - it wasn't. Put a 100 psi gauge on, still no pressure. Called Donnie Trimble to update him, was told to get 11 lb mud and pump it down hole to top kill. Pumped 130 bbls down hole, killed pumps. Checked for flow, had no flow for 15 mins, then it started flowing again and it was bringing back 10 lb brine. The mud is falling downhole through the brine and displacing it to top of hole. Called Donnie Trimble again to up date, was told to PU pipe and go to shoe to kill well from bottom up. TIH to shoe, order mud for plant.
26	6/13/2013	6/14/2013	Safety meeting w/rig crew, unload 80 jts DP out of baskets & strap. RIH w/same, WO mud f/mud plant, received 270 bbls of 11 lb mud. Pumped 187 bbls down hole, at slow rate broke circ and displaced 130 bbls production water. Had to suck production water out of Dawn's pit. Continue circ 11 lbs mud to get gas bubbles out of wellbore. TOOH, LD motor, bit, MU RBP. TIH, set RBP @ 4775', pressure test @ 500 psi f/10 mins (ok). LD DP, whdp, MU 2nd RBP, TIH.
27	6/14/2013	6/15/2013	Safety meeting, rig crew set RBP @ 520', test RBP @ 500 psi (OK). LD DP, ND BOP, NU WH cap, RD floor, LD kelly & mouse hole, clean pits. Change out pump liners, RD, released rig @ 0:600 on 6-15-13.
28	6/17/2013	6/17/2013	Move rig from AU yard to location, spot rig and equipment. Fill out jsa, safety meeting lifting. Go over completion procedure with rig crew. Rig up pulling unit. NDWH, NUBOPs, Make up retrieving tool, tally, pick up 15 jnt's. Test bops, 200 psi low, 1000 psi high, good test. SWI.
29	6/18/2013	6/18/2013	Fill out jsa, hold tailgate safety meeting on stop work authority. Check well pressure's, 0 psi on tubing and casing, open to pit. Hold blow out drill. Pick up 1 jnt, latch onto rbp @520' and release. TOOH with 16 jnt's, lay down rbp and retrieving tool. Make up retrieving tool, tih with 16 jnt's, pick 129 jnt's, 145 jnt's total, lunch, pick up 3 jnt's, 148 jnt's total, tag 6' in on jnt 148, latch onto rbp @4765', and release. Well trying to flow, circulate 11.2 mud, bottoms up. SITP @260 psi. Order 15# for top kill. Pump 15 bbl's down casing, 3 bbl's down tubing, well dead. Prepare to start pulling, well started flowing. Shut well in.
30	6/19/2013	6/19/2013	JSA, safety meeting. 70 psi on tubing, 100 psi on casing, open to pit. Pump and kill well. TOOH with 148 jnt's, filling hole, lay down rbp. Make up bit. TIH with 169 jnt's. Tag fill @5450', 165' of fill. Pick up swivel. Clean out to 5615'. Circulate hole clean. SWI.
31	6/20/2013	6/20/2013	Fill out jsa, safety meeting. TP 30 psi, CP 40 psi, open to pit, bleed down, well dead. TIH to 5615' TD, check for fill. Tubing started to flow, pump and kill. TOOH with 174 jnts, LD bit. Take off stripper head, change out bolts. Spot in Weatherford wireline truck and RU. Safety meeting. Run dipole sonic from TD to surface casing shoe. Run triple combo from TD to 7" casing shoe and pull gamma to surface. Run density on limestone matrix. Told to email digital copies to Jason Burris, Jim Styler and Jeremy Ray. Will have to be read at Weatherford office then e-mailed out. RD wireline truck. SWI.
32	6/21/2013	6/21/2013	Fill out jsa, hold tailgate safety meeting on fire arms and weapons. Check well pressure, 0 psi on casing, open to pit. Wait on logs to be read in Denver office. Spot in BlueJet wireline truck and RU, safety meeting - perforating, turn off cell phones, no one allowed on location after safety meeting. Put guns together with spacers, RIH with ChemFrac guns, guns went off prematurely @ 3425'. POOH, LD head, guns were missing. Notify W. Dee, L. Begay, D. Trimble, C. Banks, G. Vick, K. McClellan on incident, secure location. Rig down BlueJet head from BOPs. Fill out new jsa. Repair hydraulic leak on rig, broken hose. TIH with 166 jnts open-ended. SWI.
33	6/22/2013	6/22/2013	Fill out jsa, hold tailgate safety meeting on professional conduct. 0 psi on tubing, 5 psi on casing, open to pit. TOOH with 166 jnt's. Rig up BlueJet wire line truck, jsa, safety meeting with all on location on wire line work, run in hole with casing inspection tools, log from 5350' to 1291'. Rig down wire line truck. Make up rbp and retrieving head. TIH with 124 jnt's, running slow past 4198', continue running with 41 jnt's, 165 jnt's total, set rbp @5336'. Pressure test casing @150 psi. Good test. Bleed off pressure off, shut well in.



Daily Job Report

Well Name: Mcelmo Cr K18

API Number 43037163570000	Section 7	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah
Ground Elevation (ft) 4,606.00	Casing Flange Elevation (ft) 4,602.00	KB-Ground Distance (ft) 10.00	KB-Casing Flange Distance (ft) 14.00	Well Spud Date/Time 5/28/2013 00:00	Rig Release Date/Time 6/15/2013 06:00	

Report Number	Start Date	End Date	Summary
34	6/24/2013	6/24/2013	Fill out jsa, hold tailgate safety meeting on personal electronic devices. Check psi, 200 # on tubing and casing, open to pit, blow off gas. Start up pump, circulate well bore. MW @10.2#, 15 ft of solids on top of rbp. 3' of solids in pit. Send mud to plant for reconditioning. Pump down 125 bbl's 11.9 # mud. SWI.
35	6/25/2013	6/25/2013	Fill out jsa, hold tailgate safety meeting on rig floor tools, slip, trips and falls. 0 psi on tbg and csg, open to pit. Pump 75 bbl's mud down tbg, up csg, let equalize, well dead. Release rbp. TOOH with 165 jnt's, lay down rbp and retrieving tool. Lunch. Make up 7" Arrow Set 1 pckr. TIH with 164 jnt's. Set pckr @ 5302'. Circulate out mud with 230 bbl's packer fluid until clean. Test casing @1000 psi, gained 20 psi, good test. Bleed off psi. SWI.
36	6/26/2013	6/26/2013	JSA, tailgate safety meeting on incident reporting. 10 psi on tbg, 30 psi on csg, open to pit. Release on/off tool from pckr. TOOH laying down 174jnt's of tbg on float. Spot in float with TK Fiber Lined tbg with KC couplings, count 172 jnt's. Tally, make up new on/off tool, pick up 168 jnt's. Kicked out 4 bad jnt's, bad pin ends and bad liner. SWI.
37	6/27/2013	6/27/2013	JSA, tailgate safety meeting on head protection, ansi approved, no altering. Check well 0 psi on tubing and casing, open to tank. Pick up 2 jnts, tag pkr @ 5303.93', measure out. LD 2 jnts, add subs, pick up 1 jnt, MU tubing hanger. Land tubing with 25,000 compresion. Test casing and packer @ 1000 psi, good test. NDBOPs. Spot in WSI, pick and make up tree, test seal @ 2600 psi, good test. Spot in Tefteller, RIH and puncture disk, pull out. Run retrieving tool, latch onto plug and pull, 1200 psi on tubing, RD WL truck. Drop lines, RD PU, MOL. Total in hole with KB-tubing hanger, SS SN, 1 jnt, 3 subs, 167 jnts, TK with KC couplings, nipple, X-over, on/off tool with 1.81 F profile nipple @ 5303.93', X-over, 7"Arrowset 1X pkr @ 5312.13', X-over, 1.78 R @ 5313.95', wireline re-entry guide @ 5314.36'.
38	6/28/2013	6/28/2013	Flow back well until cleaned up. Starting pressure @1200 psi, ending pressure @50 psi, flowed back 45 bbl's.
39	7/1/2013	7/1/2013	JSA, safety meeting. 850 psi on tbg, 0 psi on csg. Build line from well head to frac tank. Flow 152 bbl's total back to tank. SWI.
40	7/2/2013	7/2/2013	700 psi on tubing. Flow back well 78 bbl's, 232 bbl's total. Clear water.
41	7/3/2013	7/3/2013	SITP 50 psig. SICP 0 psig. BH 0 psig. 20 to 25 gal to get csg pressure to 1,000 psig. Chart for 30 min. Failed MIT. Bd csg to 0 psig. Press csg to 1,000 psig. SITP 300 psig. BH 0 psig. Chart for 30 min. Passed MIT. Witnessed by Jean Bia NNEPA Note:
42	7/8/2013	7/9/2013	Mcelmo Cr K18 - Redrill. Clean out fill, acid stimulate, 2 7/8" TKKC, pkr 1.78 profile nip @ 5,314', 1.81 @ 5,304'. 26# csg @ 5,378'. TD @ 5,615'. SITP 722 psig. SICP 0 psig. Pmp 2 bbl FW lead, 3 bbls 28% HCl acid, & displace w/10.2 bbls FW. SD Baker Hughes. Pull CT into csg. Let set 30 min. Attempt to work through tight spot @ 5,548' w/o success. Talked w/Wilson & decided to pmp acid. Estb pump rate @ .6 bpm @ 2,800 psig. Start acid flow. After acid reached formation started working tbg. After 37 bbls acid gone we broke through tight spot & went to 5,609' w/o KB. Work tbg from 5,390' to 5,609' 3 times, then left coil @ 5,608'. Acidize .7 bpm @ 2,300 psig. Attempted to pump @ .8 bpm w/success & kept kicking out pump @ 3,800 psig. Settled on pumping @ .7 bpm. Pumped total of 12,000 gal of 20% HCL acid. Displace w/25 BFW. ISIP 3490 psig, 5 min 738 psig, 10 min 668 psig, 15 min 630 psig. RDMO Baker Hughes. RD Basic CTU, SDFN.
43	7/9/2013	7/10/2013	Flowback well after pumping acid. Attempt to flowback 400 bbls. SITP 250 psig. SICP 0 psig. Recovered 253 bbls of fluid. (No acid, trace of oil & brown wtr.) Well blowing gas, CO2 very little fluid. SWI. Tbg pressure buildup to 150 psig. Hauled 4 loads to Area 1. SDFN
44	7/10/2013	7/11/2013	Flowback 27 bbls of fluid with CO2. Well went dead. Released flowback crew. Notified James Madison to tie well in.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5 LEASE DESIGNATION AND SERIAL NUMBER 1420603263			
						6 IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo			
1a TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <u>injection</u>						7 UNIT or CA AGREEMENT NAME McElmo Creek			
b. TYPE OF WORK NEW WELL <input type="checkbox"/> HORIZ LATS <input type="checkbox"/> DEEP-EN <input checked="" type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER _____						8 WELL NAME and NUMBER McElmo Crk K-18			
2 NAME OF OPERATOR Resolute Natural Resources						9 API NUMBER 4303716357			
3 ADDRESS OF OPERATOR 1675 Broadway, Ste 1950 CITY Denver STATE CO ZIP 80202				PHONE NUMBER (303) 573-4886		10 FIELD AND POOL OR WILDCAT Greater Aneth			
4 LOCATION OF WELL (FOOTAGES) AT SURFACE 1843 FNL, 1808 FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: 2025 FNL, 1904 FWL AT TOTAL DEPTH: 2025 FNL, 1905 FWL						11 QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN SENW 7 41S 25E S			
14 DATE SPURRED 5/28/2013			15 DATE T.D. REACHED 6/15/2013		16 DATE COMPLETED 7/11/2013		17 ELEVATIONS (DF, RKB, RT, GL) 4604 GL		
18. TOTAL DEPTH: MD 5,616 TVD 5,606		19. PLUG BACK T.D.: MD TVD		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET TVD			
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) Cement bond log						23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)			
24. CASING AND LINER RECORD (Report all strings set in well)									
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17.5	16	53.1	0	131		B 125		0 CIR	
12.5	10.75 H-40	32.75	0	1,300		B 1,100		0 CIR	
8.675	7 J-55	26	0	5,379		B 350		1885 CAL	
25. TUBING RECORD									
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2.875	5,215								
26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A)					5,374 5,385			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>	
(B)					5,412 5,424			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>	
(C)					5,442 5,458			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>	
(D)					5,482 5,544			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>	
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.									
DEPTH INTERVAL			AMOUNT AND TYPE OF MATERIAL						
5215 to TD open hole			2 bbls FW lead, 286 bbls 20% HCl acid, 25 bbls FW flush						
29. ENCLOSED ATTACHMENTS:								30. WELL STATUS:	
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> DST REPORT <input type="checkbox"/> DIRECTIONAL SURVEY <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> OTHER: <u>WBD-Final</u>								injecting	

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED		TEST DATE		HOURS TESTED		TEST PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	PROD METHOD
CHOKE SIZE	TBG PRESS	CSG PRESS	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED		TEST DATE		HOURS TESTED		TEST PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	PROD METHOD
CHOKE SIZE	TBG PRESS	CSG PRESS	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED		TEST DATE		HOURS TESTED		TEST PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	PROD METHOD
CHOKE SIZE	TBG PRESS	CSG PRESS	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED		TEST DATE		HOURS TESTED		TEST PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	PROD METHOD
CHOKE SIZE	TBG PRESS	CSG PRESS	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Chinle	1,229			Desert Creek III	5,544
Upper Ismay	5,215				
Lower Ismay	5,290				
Gothic Shale	5,360				
Desert Creek IA	5,372				
Desert Creek IB	5,395				
Desert Creek IC	5,405				
Desert Creek IIA	5,422				
Desert Creek IIB	5,447				
Desert Creek IIC	5,486				

35. ADDITIONAL REMARKS (Include plugging procedure)

Well put back to injection 7-11-13. MIT run 7-3-13, passed, witnessed by Jean Bia, NNEPA.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Sherry Glass TITLE Sr Regulatory Technician
 SIGNATURE *Sherry Glass* DATE 7/24/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

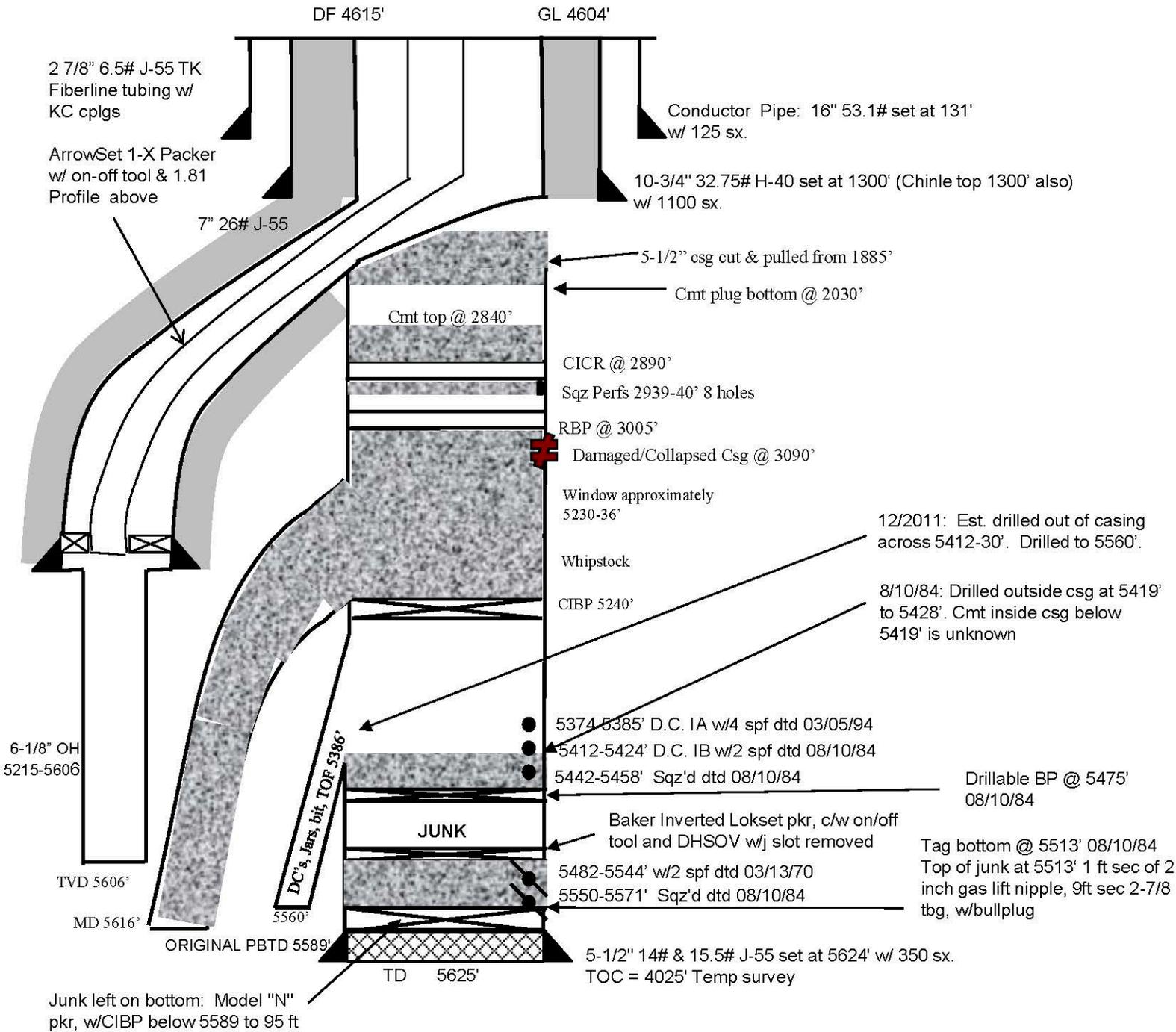
Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

McELMO CREEK UNIT # K-18

GREATER ANETH FIELD
1843' FNL & 1808' FWL
SEC 7-T41S-R25E
SAN JUAN COUNTY, UTAH
API 43-037-16357
PRISM 0000280

INJECTOR

FINAL Wellbore



G.L.M. 11/01/02
Updated Sglass 07/13

RECEIVED: Jul. 24, 2013

RESOLUTE

NATURAL RESOURCES

MCU K-18
1843 FNL, 1808 FWL
Sec 7-T41S-R25E
43-037-16357

Sidetrack/Recompletion and Coil Tubing Acid Stimulation Details

Job Scope

Job Scope includes: Sidetrack and recomplete Desert Creek IIC via open hole and inject with existing productive intervals. Cleanout wellbore to PBD, Acidize, POOH & RDMO.

Work History

5/28/2013: Sidetrack & Recompletion - Re-entered TA wellbore, drilled out below 10-3/4" shoe @ 1300' and set & cemented 7" csg at 5379'; drilled out of 7" through DC-IIC to TD at 5615', Ran OH logs, Attempted Chem-Frac & had premature ignition incident; Ran Csg Inspection logs & PT'd csg against RBP at 5336' - no apparent csg damage, Ran new 7" AS-1X injection packer & 2-7/8" injection tubing; Flowed back 200 bbls to frac tank.

Procedure

MIRU

NU & Test NOPe

PU 9-7/8" bit and directional tools to drill sidetrack according to attached directional survey from KOP Run 7" 26# J-55 casing from surface to approximately 5215'

Cemented 7" casing from 5215 to surface using two stage cement job: First Stage 0-2500': lead slurry-3 Second Stage- 2500-5379': lead slurry- 500 sx premium, tail slurry- 100 sx Type II cement

PU 6-1/8" bit and drilled open hole section to TD of 5606' TVD

Stimulated open hole section, after analyzing ChemFrac premature firing incident on 6-21-13.

LOTO Injection Lines, if required, at wellhead on main isolation valves and CP Panel.

MI spot 1.25" CTU, pump unit, rig pit, install hard line and choke manifold.

RU CTU with 1.25 inch coil, with generic jetting nozzle (Vortech should not be necessary);

Minimum ID @ 1.72 "R" nipple @ 5313' KB.

Test lubricator, CT, and BOP's to 4500 psig.

RIH with CTU, establish circulation; wash down/clean out to PBTD at 5615', circ clean.

Prepare to acidize open hole 5425-5560' with 7500 gallons of 20% Inhibited HCl.

Spot coil at 5560' & begin acid, taking returns back to surface until acid reaches the CT nozzle.

SI returns at surface & squeeze acid away; move CT slowly up to 5425' & back down to 5560' several times while pumping acid.

Overdisplace w/nozzle at ~5379' (csg shoe) w/30 bbls fresh water.

POOH with coil and jetting tool. Flush coil w/fresh water, then N2.

RD CTU and stimulation equipment. Release equipment.

Perform lateral line flowback to frac tank until water is clean; wellbore should not need flowback.

Arrange for NNEPA witnessed MIT.

Advise Production the well is ready to return to injection.

Return well to injection.

Note:

Resolute moved a Coil Tubing Unit onto MCU K-18 new injector sidetrack to acidize. This work was necessary because of the ChemFrac premature firing incident that occurred while attempting to stimulate K-18 sidetrack wellbore on June 21, 2013. Both ChemFrac and acid were then skipped and the completion equipment was installed in the well.

Resolute Natural Resources

McELMO Creek Unit (Nad 27)

Resolute McElmo Creek Unit K-18

MCU K-18

DD-1311

UWI:

WL:

Survey: Final

Standard Survey Report

12 June, 2013



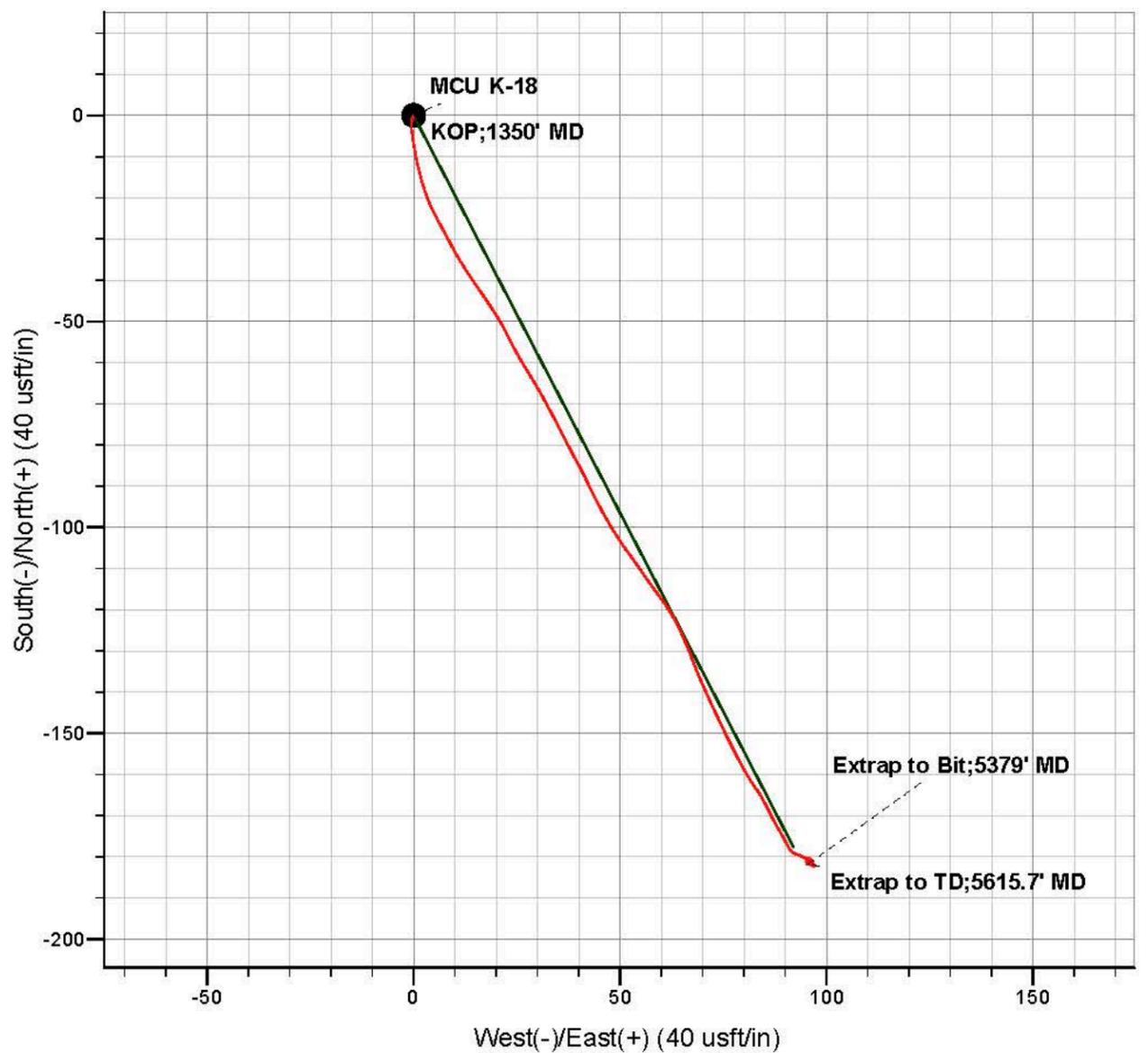
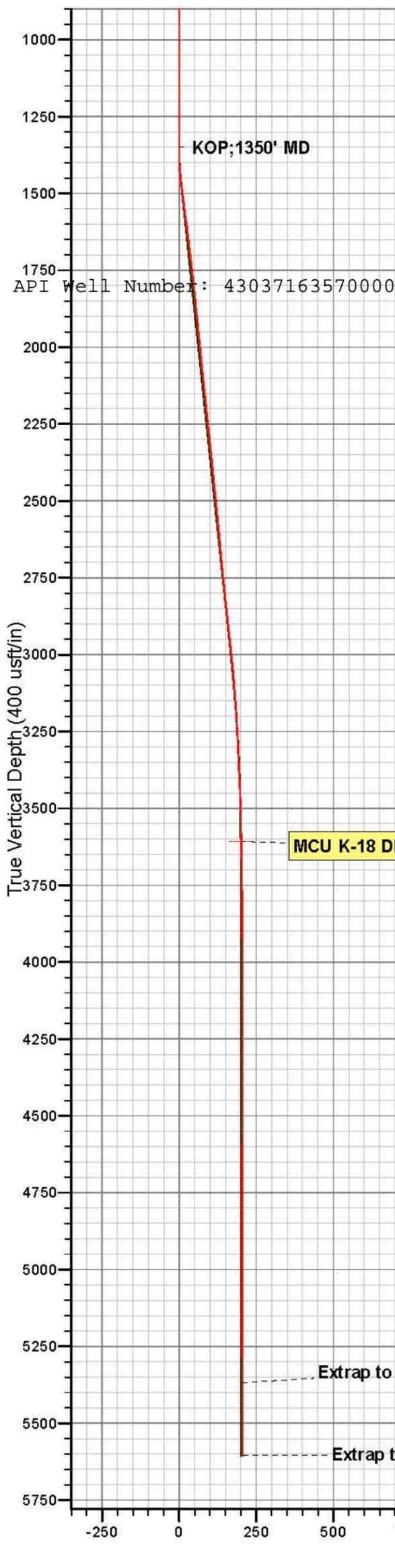
Site: Resolute McElmo Creek Unit K-18
Well: MCU K-18
Wellbore: DD-1311
Plan: Final

Reference Details - WELL CENTRE
Geodetic System: US State Plane 1927 (Exact solution)
Ellipsoid: Clarke 1866
Zone: Utah South 4303
Northing: 216509.00
Easting: 2664580.98
Latitude: 37° 14' 20.441 N
Longitude: 109° 13' 1.005 W
Grid Convergence: 1.40° West
Ground Elevation: 4604.0
KB Elevation: RKB @ 4620.5usft (D&J 1)



PLAN DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	5.5	0.00	0.00	5.5	0.0	0.0	0.00	0.00	0.0	
2	1355.5	0.00	0.00	1355.5	0.0	0.0	0.00	0.00	0.0	
3	1455.6	6.00	152.62	1455.4	-4.7	2.4	6.00	152.62	5.2	
4	3016.9	6.00	152.62	3008.1	-149.7	77.5	0.00	0.00	168.6	
5	3617.3	0.00	0.00	3607.5	-177.6	92.0	1.00	180.00	200.0	MCU K-18 DD #3
6	5615.3	0.00	0.00	5605.5	-177.6	92.0	0.00	0.00	200.0	



ANNOTATIONS

TVD	MD	Annotation
1350.0	1350.0	KOP;1350' MD
5368.8	5379.0	Extrap to Bit;5379' MD
5605.5	5615.7	Extrap to TD;5615.7' MD

FORMATION TOP DETAILS

No formation data is available



Mesa West Directional
Survey Report



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well MCU K-18
Project:	McELMO Creek Unit (Nad 27)	TVD Reference:	RKB @ 4620.5usft (D&J 1)
Site:	Resolute McElmo Creek Unit K-18	MD Reference:	RKB @ 4620.5usft (D&J 1)
Well:	MCU K-18	North Reference:	Grid
Wellbore:	DD-1311	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Project	McELMO Creek Unit (Nad 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah South 4303		

Site	Resolute McElmo Creek Unit K-18				
Site Position:	Northing:	216,509.00 usft	Latitude:	37° 14' 20.441 N	
From:	Map	Easting:	2,664,580.98 usft	Longitude:	109° 13' 1.005 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.40 °

Well	MCU K-18					
Well Position	+N/-S	0.0 usft	Northing:	216,509.00 usft	Latitude:	37° 14' 20.441 N
	+E/-W	0.0 usft	Easting:	2,664,580.98 usft	Longitude:	109° 13' 1.005 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	4,604.0 usft

Wellbore	DD-1311				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/22/2013	10.33	63.57	50,642

Design	Final				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	152.01	

Survey Program	Date	6/12/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1,350.0	5,615.7	Final (DD-1311)	MWD	MWD - Standard	

Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	-4,620.5	0.0	0.0	0.0	0.00	0.00	0.00	
KOP;1350' MD											
1,350.0	0.00	0.00	1,350.0	-3,270.5	0.0	0.0	0.0	0.00	0.00	0.00	
1,393.0	2.50	202.70	1,393.0	-3,227.5	-0.9	-0.4	0.6	5.81	5.81	0.00	
1,424.0	4.50	177.90	1,423.9	-3,196.6	-2.7	-0.6	2.1	7.95	6.45	-80.00	
1,456.0	6.90	169.20	1,455.8	-3,164.7	-5.8	-0.2	5.1	7.95	7.50	-27.19	
1,488.0	7.70	169.70	1,487.5	-3,133.0	-9.8	0.6	9.0	2.51	2.50	1.56	
1,519.0	7.60	166.90	1,518.2	-3,102.3	-13.9	1.4	12.9	1.24	-0.32	-9.03	
1,548.0	7.60	160.70	1,547.0	-3,073.5	-17.6	2.5	16.7	2.83	0.00	-21.38	
1,579.0	7.80	157.60	1,577.7	-3,042.8	-21.4	4.0	20.8	1.49	0.65	-10.00	
1,611.0	7.20	151.50	1,609.4	-3,011.1	-25.2	5.7	25.0	3.11	-1.88	-19.06	

Mesa West Directional
Survey Report



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well MCU K-18
Project:	McELMO Creek Unit (Nad 27)	TVD Reference:	RKB @ 4620.5usft (D&J 1)
Site:	Resolute McElmo Creek Unit K-18	MD Reference:	RKB @ 4620.5usft (D&J 1)
Well:	MCU K-18	North Reference:	Grid
Wellbore:	DD-1311	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,641.0	7.20	151.80	1,639.2	-2,981.3	-28.5	7.5	28.7	0.13	0.00	1.00
1,673.0	6.90	152.10	1,670.9	-2,949.6	-32.0	9.4	32.6	0.94	-0.94	0.94
1,704.0	6.90	149.50	1,701.7	-2,918.8	-35.2	11.2	36.4	1.01	0.00	-8.39
1,735.0	6.20	145.10	1,732.5	-2,888.0	-38.2	13.1	39.9	2.78	-2.26	-14.19
1,765.0	6.10	146.30	1,762.3	-2,858.2	-40.9	14.9	43.1	0.54	-0.33	4.00
1,794.0	5.90	145.10	1,791.2	-2,829.3	-43.4	16.6	46.1	0.81	-0.69	-4.14
1,825.0	5.90	146.50	1,822.0	-2,798.5	-46.0	18.4	49.3	0.46	0.00	4.52
1,857.0	5.70	148.30	1,853.9	-2,766.6	-48.7	20.1	52.5	0.84	-0.63	5.63
1,889.0	5.80	150.60	1,885.7	-2,734.8	-51.5	21.8	55.7	0.78	0.31	7.19
1,920.0	6.00	154.50	1,916.5	-2,704.0	-54.3	23.2	58.9	1.44	0.65	12.58
1,951.0	6.10	151.70	1,947.4	-2,673.1	-57.2	24.7	62.1	1.01	0.32	-9.03
1,983.0	5.90	149.20	1,979.2	-2,641.3	-60.1	26.4	65.5	1.03	-0.63	-7.81
2,015.0	6.00	148.00	2,011.0	-2,609.5	-63.0	28.1	68.8	0.50	0.31	-3.75
2,046.0	6.00	150.30	2,041.8	-2,578.7	-65.8	29.8	72.0	0.78	0.00	7.42
2,077.0	5.60	150.20	2,072.7	-2,547.8	-68.5	31.3	75.2	1.29	-1.29	-0.32
2,108.0	5.90	151.30	2,103.5	-2,517.0	-71.2	32.8	78.3	1.03	0.97	3.55
2,139.0	5.60	153.10	2,134.4	-2,486.1	-73.9	34.3	81.4	1.13	-0.97	5.81
2,170.0	5.70	152.20	2,165.2	-2,455.3	-76.6	35.7	84.4	0.43	0.32	-2.90
2,202.0	5.70	153.90	2,197.1	-2,423.4	-79.5	37.1	87.6	0.53	0.00	5.31
2,234.0	5.90	151.80	2,228.9	-2,391.6	-82.4	38.6	90.8	0.91	0.63	-6.56
2,265.0	5.80	151.90	2,259.7	-2,360.8	-85.1	40.1	94.0	0.32	-0.32	0.32
2,295.0	6.00	152.80	2,289.6	-2,330.9	-87.9	41.5	97.1	0.73	0.67	3.00
2,327.0	6.30	154.50	2,321.4	-2,299.1	-90.9	43.0	100.5	1.10	0.94	5.31
2,358.0	6.20	153.90	2,352.2	-2,268.3	-94.0	44.5	103.9	0.39	-0.32	-1.94
2,386.0	5.90	150.30	2,380.1	-2,240.4	-96.6	45.9	106.8	1.73	-1.07	-12.86
2,416.0	5.90	148.80	2,409.9	-2,210.6	-99.2	47.4	109.9	0.51	0.00	-5.00
2,448.0	5.80	147.90	2,441.7	-2,178.8	-102.0	49.2	113.2	0.42	-0.31	-2.81
2,479.0	5.60	144.70	2,472.6	-2,147.9	-104.6	50.9	116.2	1.21	-0.65	-10.32
2,508.0	5.90	144.50	2,501.4	-2,119.1	-107.0	52.5	119.1	1.04	1.03	-0.69
2,538.0	6.10	145.10	2,531.3	-2,089.2	-109.5	54.4	122.2	0.70	0.67	2.00
2,569.0	5.90	145.80	2,562.1	-2,058.4	-112.2	56.2	125.4	0.69	-0.65	2.26
2,601.0	5.00	143.50	2,594.0	-2,026.5	-114.7	57.9	128.4	2.89	-2.81	-7.19
2,632.0	5.00	142.90	2,624.8	-1,995.7	-116.8	59.6	131.1	0.17	0.00	-1.94
2,663.0	5.10	146.80	2,655.7	-1,964.8	-119.1	61.1	133.8	1.15	0.32	12.58
2,692.0	5.00	149.00	2,684.6	-1,935.9	-121.2	62.5	136.4	0.75	-0.34	7.59
2,724.0	5.50	153.70	2,716.5	-1,904.0	-123.8	63.9	139.3	2.06	1.56	14.69
2,754.0	5.70	155.20	2,746.3	-1,874.2	-126.4	65.2	142.2	0.83	0.67	5.00
2,784.0	5.80	158.40	2,776.2	-1,844.3	-129.2	66.3	145.2	1.12	0.33	10.67
2,815.0	6.20	158.80	2,807.0	-1,813.5	-132.2	67.5	148.4	1.30	1.29	1.29
2,846.0	6.10	158.10	2,837.8	-1,782.7	-135.3	68.7	151.7	0.40	-0.32	-2.26
2,877.0	6.20	155.60	2,868.6	-1,751.9	-138.4	70.0	155.0	0.92	0.32	-8.06
2,909.0	6.20	156.10	2,900.5	-1,720.0	-141.5	71.5	158.5	0.17	0.00	1.56
2,938.0	6.40	154.20	2,929.3	-1,691.2	-144.4	72.8	161.7	1.00	0.69	-6.55

Mesa West Directional
Survey Report



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well MCU K-18
Project:	McELMO Creek Unit (Nad 27)	TVD Reference:	RKB @ 4620.5usft (D&J 1)
Site:	Resolute McElmo Creek Unit K-18	MD Reference:	RKB @ 4620.5usft (D&J 1)
Well:	MCU K-18	North Reference:	Grid
Wellbore:	DD-1311	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,969.0	6.40	154.90	2,960.1	-1,660.4	-147.5	74.3	165.1	0.25	0.00	2.26
3,001.0	6.10	153.90	2,991.9	-1,628.6	-150.7	75.8	168.6	1.00	-0.94	-3.13
3,032.0	5.80	152.50	3,022.7	-1,597.8	-153.5	77.2	171.8	1.07	-0.97	-4.52
3,063.0	4.90	152.80	3,053.6	-1,566.9	-156.1	78.6	174.7	2.90	-2.90	0.97
3,094.0	4.80	151.80	3,084.5	-1,536.0	-158.4	79.8	177.3	0.42	-0.32	-3.23
3,126.0	4.80	149.40	3,116.4	-1,504.1	-160.7	81.1	180.0	0.63	0.00	-7.50
3,157.0	4.00	144.90	3,147.3	-1,473.2	-162.7	82.4	182.4	2.81	-2.58	-14.52
3,186.0	3.60	143.40	3,176.2	-1,444.3	-164.3	83.5	184.3	1.42	-1.38	-5.17
3,215.0	3.30	151.90	3,205.2	-1,415.3	-165.8	84.4	186.0	2.04	-1.03	29.31
3,245.0	3.10	153.80	3,235.1	-1,385.4	-167.3	85.2	187.7	0.75	-0.67	6.33
3,276.0	2.70	153.80	3,266.1	-1,354.4	-168.7	85.9	189.2	1.29	-1.29	0.00
3,308.0	2.80	152.80	3,298.0	-1,322.5	-170.0	86.6	190.8	0.35	0.31	-3.13
3,338.0	2.60	150.80	3,328.0	-1,292.5	-171.3	87.2	192.2	0.74	-0.67	-6.67
3,368.0	2.70	150.50	3,358.0	-1,262.5	-172.5	87.9	193.6	0.34	0.33	-1.00
3,398.0	2.70	150.50	3,387.9	-1,232.6	-173.7	88.6	195.0	0.00	0.00	0.00
3,429.0	2.60	150.90	3,418.9	-1,201.6	-175.0	89.3	196.4	0.33	-0.32	1.29
3,461.0	2.30	152.80	3,450.9	-1,169.6	-176.2	90.0	197.8	0.97	-0.94	5.94
3,492.0	2.00	154.00	3,481.9	-1,138.6	-177.2	90.5	199.0	0.98	-0.97	3.87
3,521.0	1.50	145.90	3,510.8	-1,109.7	-178.0	90.9	199.8	1.92	-1.72	-27.93
3,552.0	1.10	140.60	3,541.8	-1,078.7	-178.6	91.3	200.5	1.35	-1.29	-17.10
3,584.0	0.90	117.90	3,573.8	-1,046.7	-178.9	91.8	201.0	1.37	-0.63	-70.94
3,615.0	1.10	118.50	3,604.8	-1,015.7	-179.2	92.2	201.5	0.65	0.65	1.94
3,645.0	1.10	108.00	3,634.8	-985.7	-179.4	92.8	201.9	0.67	0.00	-35.00
3,676.0	0.90	115.20	3,665.8	-954.7	-179.6	93.3	202.4	0.76	-0.65	23.23
3,707.0	0.80	116.90	3,696.8	-923.7	-179.8	93.7	202.7	0.33	-0.32	5.48
3,800.0	0.80	116.90	3,789.8	-830.7	-180.4	94.8	203.8	0.00	0.00	0.00
3,891.0	0.40	155.40	3,880.8	-739.7	-181.0	95.5	204.6	0.60	-0.44	42.31
3,984.0	0.30	112.30	3,973.8	-646.7	-181.3	95.9	205.1	0.29	-0.11	-46.34
4,078.0	0.50	132.50	4,067.8	-552.7	-181.7	96.4	205.7	0.26	0.21	21.49
4,172.0	0.40	151.80	4,161.8	-458.7	-182.3	96.9	206.4	0.19	-0.11	20.53
4,264.0	0.10	340.70	4,253.8	-366.7	-182.5	97.0	206.7	0.54	-0.33	-185.98
4,358.0	0.30	358.50	4,347.8	-272.7	-182.2	97.0	206.4	0.22	0.21	18.94
4,452.0	0.30	327.00	4,441.8	-178.7	-181.7	96.8	205.9	0.17	0.00	-33.51
4,545.0	0.20	342.90	4,534.8	-85.7	-181.3	96.7	205.5	0.13	-0.11	17.10
4,639.0	0.30	342.40	4,628.8	8.3	-181.0	96.5	205.1	0.11	0.11	-0.53
4,733.0	0.30	291.90	4,722.8	102.3	-180.6	96.2	204.7	0.27	0.00	-53.72
4,826.0	0.30	288.90	4,815.8	195.3	-180.5	95.8	204.3	0.02	0.00	-3.23
4,922.0	0.10	238.80	4,911.8	291.3	-180.4	95.5	204.1	0.26	-0.21	-52.19
5,015.0	0.10	283.70	5,004.8	384.3	-180.4	95.3	204.1	0.08	0.00	48.28
5,110.0	0.30	188.30	5,099.8	479.3	-180.7	95.2	204.2	0.34	0.21	-100.42
5,203.0	0.40	192.30	5,192.8	572.3	-181.2	95.1	204.7	0.11	0.11	4.30
5,297.0	0.30	150.40	5,286.8	666.3	-181.8	95.1	205.2	0.28	-0.11	-44.57
5,329.0	0.30	99.40	5,318.8	698.3	-181.9	95.3	205.3	0.81	0.00	-159.38

Mesa West Directional
Survey Report



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well MCU K-18
Project:	McELMO Creek Unit (Nad 27)	TVD Reference:	RKB @ 4620.5usft (D&J 1)
Site:	Resolute McElmo Creek Unit K-18	MD Reference:	RKB @ 4620.5usft (D&J 1)
Well:	MCU K-18	North Reference:	Grid
Wellbore:	DD-1311	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Extrap to Bit;5379' MD										
5,379.0	0.30	99.40	5,368.8	748.3	-181.9	95.5	205.5	0.00	0.00	0.00
Extrap to TD;5615.7' MD										
5,615.7	0.30	99.40	5,605.5	985.0	-182.1	96.8	206.2	0.00	0.00	0.00

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,350.0	1,350.0	0.0	0.0	KOP;1350' MD	
5,379.0	5,368.8	-181.9	95.5	Extrap to Bit;5379' MD	
5,615.7	5,605.5	-182.1	96.8	Extrap to TD;5615.7' MD	

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

FORM APPROVED
 OMB NO. 1004-0135
 Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
 1420603263

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.
 UTU68930A

1. Type of Well
 Oil Well Gas Well Other: INJECTION

8. Well Name and No.
 MCELMO CREEK K-18

2. Name of Operator
 RESOLUTE ANETH, LLC

Contact: SHERRY GLASS
 E-Mail: sglass@resoluteenergy.com

9. API Well No.
 43-037-16357

3a. Address
 1675 BROADWAY SUITE 1950
 DENVER, CO 80202

3b. Phone No. (include area code)
 Ph: 303-573-4886 Ext: 1580
 Fx: 303-623-3628

10. Field and Pool, or Exploratory
 ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 Sec 7 T41S R25E Mer NAV SENW 1843FNL 1802FWL

11. County or Parish, and State
 SAN JUAN COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Recompletion/Deepening
 McElmo Creek K-18
 Recompletion Procedure (Sundry ? Subsequent)

Job Scope ?Sidetracked and recompleted Desert Creek IIC via open hole and injected with existing productive intervals. Kicked off surface cement plug and redrilled 8-3/4 inch intermediate section to a TD of 5290 ft. Set 7 inch intermediate casing and cemented back to surface. Drilled 6-1/8 inch to TD of 5,606 ft. TVD, stimulate the open hole IIC section, and ran new 2-7/8 inch TK Fiberline tubing with KC couplings and new injection packer. Chinle isolation is not required in this well.
 Attached
 FINAL wellbore diagram, Subsequent Support info, directional survey

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #214743 verified by the BLM Well Information System
 For RESOLUTE ANETH, LLC, sent to the Farmington**

Name (Printed/Typed) JIM STYLER

Title PRODUCTION ENGINEER

Signature (Electronic Submission)

Date 07/24/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED: Jul. 24, 2013

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

FORM APPROVED
 OMB NO. 1004-0135
 Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
 1420603263

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.
 UTU68930A

1. Type of Well
 Oil Well Gas Well Other: INJECTION

8. Well Name and No.
 MCELMO CREEK K-18

2. Name of Operator
 RESOLUTE ANETH, LLC

Contact: SHERRY GLASS
 E-Mail: sglass@resoluteenergy.com

9. API Well No.
 43-037-16357

3a. Address
 1675 BROADWAY SUITE 1950
 DENVER, CO 80202

3b. Phone No. (include area code)
 Ph: 303-573-4886 Ext: 1580
 Fx: 303-623-3628

10. Field and Pool, or Exploratory
 ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 Sec 7 T41S R25E Mer NAV SENW 1843FNL 1802FWL

11. County or Parish, and State
 SAN JUAN COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input checked="" type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Resolute performed an MIT on 7-3-13 with the following results:
 1. RU WSU, deepening of UIC work
 2. Spot in Wellcheck
 3. SITP 50 psig, SICP 0 psig, BH 0 psig; 20-25 gal to get csg pressure to 1000 psig
 4. Chart for 30 min, failed MIT
 5. BD csg to 0 psig, Press csg to 1000 psig, SITP 300 psig, BH 0 psig
 6. Chart for 30 min., Passed MIT, witnessed by Jean Bia, NNEPA.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #214742 verified by the BLM Well Information System
 For RESOLUTE ANETH, LLC, sent to the Farmington**

Name (Printed/Typed) JIM STYLER

Title PRODUCTION ENGINEER

Signature (Electronic Submission)

Date 07/24/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED: Jul. 24, 2013

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-263
---	---

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO 7. UNIT or CA AGREEMENT NAME: MCELMO CREEK
--	--

1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: NAVAJO 114-18 (MCELMO K-18)
--	--

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037163570000
---	---

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	PHONE NUMBER: 303 534-4600 Ext	9. FIELD and POOL or WILDCAT: GREATER ANETH
--	--	---

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1843 FNL 1802 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 07 Township: 41.0S Range: 25.0E Meridian: S	COUNTY: SAN JUAN STATE: UTAH
---	---

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/30/2015 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="UIC Repair"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice of a UIC repair on the above well. Attached are the procedures and schematic

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**

Date: January 29, 2015
 By: *Derek Duff*

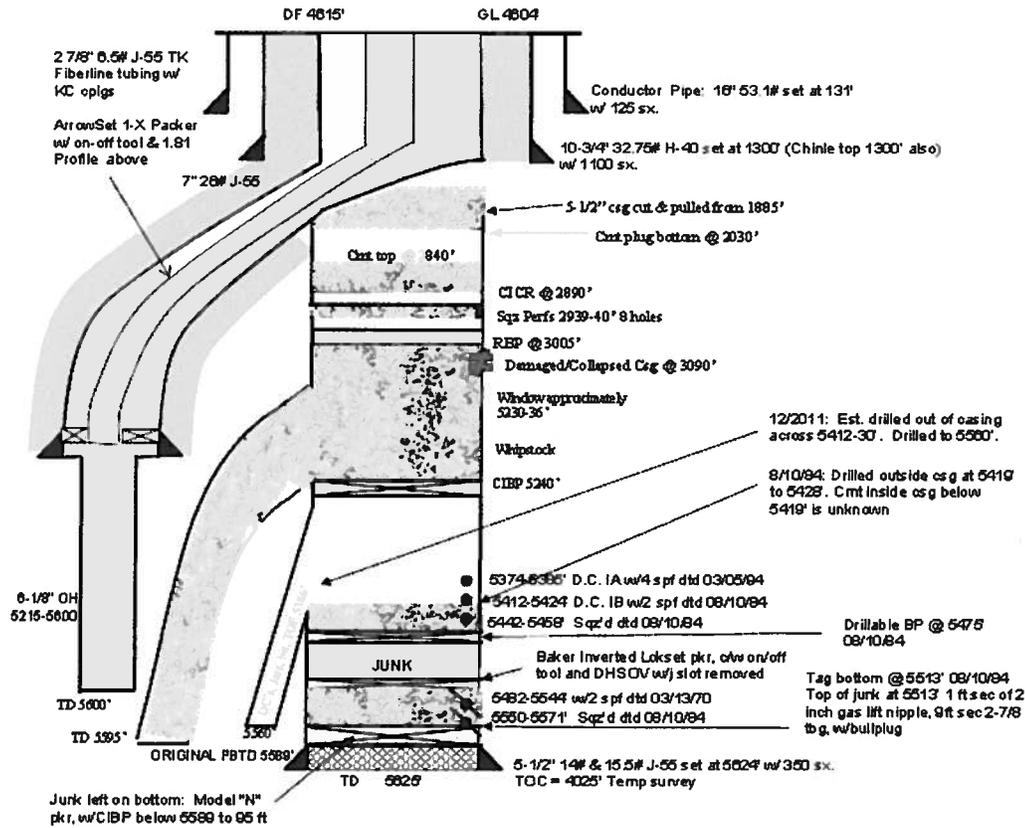
NAME (PLEASE PRINT) Erin Joseph	PHONE NUMBER 303 573-4886	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 1/19/2015	

<u>Resolute Natural Resources</u>
MCU K-18 – UIC Repair
Horsley Witten: NO
1. Well has 1.78 plug set at 5,291' .
2. MIRU WSU, LOTO.
3. ND WH & NU BOP's. Test BOP's.
4. RU Great White Snubbing Unit & spacer spool.
5. Unset pkr & TOO H w/2-7/8 TK Fiberline tbg & 7" AS-1X packer, standing back & inspecting each connection , on/off tool, and packer condition . Re-run or replace tbg per inspection results.*
6. PU workstring. RIH bit X scraper to 5615. Clean out to PBTD. Scraper spaced to keep scraper above 5360.
7. POOH & LD bit & scraper.
8. RIH w/7" RBP. Set RBP at about 5350. Dump sand on top of bridge plug. Pressure test casing to 1000 psi. If casing pressure tests, proceed to Step 11.
9. Locate hole in casing using packer. DV tool is at 2511'.
10. Depending upon nature of hole either perform a cement squeeze or run a casing patch later in the program after the openhole is acidized.
11. PU retrieval tool. RIH and wash over RBP. POOH.
12. RIH w/7" treating packer. Set pkr at 5350.
13. Open bypass, circ acid to bypass, close bypass.
14. Pump 3000 gals 20% acid away at max rate possible, using 3500 psi max TP. Monitor backside pressure.
15. Overdisplace EOT with 25 bbls fresh water. Record ISIP, 5, 10, and 15 min SI pressures. Leave well shut in for a minimum four hours. Flowback 150 bbls.
16. RU WL & set plug in nipple profile at pkr; snub out of hole w/treating packer.
17. RIH w/ new 7" AS-1X packer on injection tubing to pkr set depth of 5310' with plug in profile nipple. Unset plug. Circulate pkr fluid. Set pkr. Land tubing.
18. Perform mock MIT.
19. ND snubbing unit & BOP, NU WH. Test void to 2500 psi. RD WSU.
20. MIRU slickline unit. Test lubricator to 2500 psi.
21. RIH gauge ring, shear plug, and retrieve 1.78 plug. RDMO slickline unit.
22. Backflow the lateral line.
23. Schedule witnessed MIT w/ NNEPA.
24. Notify Area Injection Supervisor Pierce Benally (435) 444-9957 that well is ready for reconnect & return to injection.
* If tubing is replaced, consult Bill Albert for tbg type to be run back in the well.

McELMO CREEK UNIT # K-18
 GREATER ANETH FIELD
 1843' FNL & 1802' FWL
 SEC 7-T41S-R25E
 SAN JUAN COUNTY, UTAH
 API 43-037-16357
 PRISM 0000280

INJECTOR

**Attachment 2:
 Proposed Wellbore**



265
 8.179012
 226.8 seven jts

G.L.M. 11.01.02

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-263
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
		7. UNIT or CA AGREEMENT NAME: MCELMO CREEK
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: NAVAJO 114-18 (MCELMO K-18)	
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037163570000	
3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	PHONE NUMBER: 303 534-4600 Ext	9. FIELD and POOL or WILDCAT: GREATER ANETH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1843 FNL 1802 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 07 Township: 41.0S Range: 25.0E Meridian: S	COUNTY: SAN JUAN	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/4/2015 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Resolute Natural Resources submits this sundry as notice that the UIC repair has been completed on the above well as of 2/4/2015 according to previously approved procedures		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 23, 2015		OTHER: <input type="text" value="UIC Repair"/>
NAME (PLEASE PRINT) Erin Joseph	PHONE NUMBER 303 573-4886	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 2/19/2015	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-263
---	---

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO 7. UNIT or CA AGREEMENT NAME: MCELMO CREEK
--	--

1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: NAVAJO 114-18 (MCELMO K-18)
--	--

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037163570000
---	---

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	PHONE NUMBER: 303 534-4600 Ext	9. FIELD and POOL or WILDCAT: GREATER ANETH
--	--	---

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1843 FNL 1802 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 07 Township: 41.0S Range: 25.0E Meridian: S	COUNTY: SAN JUAN STATE: UTAH
---	---

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/13/2015 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="UIC repairs"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute proposes to attempt to make UIC repairs on the subject well.
 The proposed procedure and wellbore schematics are attached.

Accepted by the Utah Division of Oil, Gas and Mining

Date: ~~November 16, 2015~~
By: *Derek Duff*

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Analyst
SIGNATURE N/A	DATE 11/10/2015	

RESOLUTE

NATURAL RESOURCES

11-10-2015

7960041900

UTU68930A

4303716357

MCU K-18 UIC repair

Recommendation

The production engineer and operations staff at McElmo Creek Unit recommend moving a workover rig onto **MCU K-18** to make UIC repairs. The workover is expected to restore injection of 500 BWPD and support 32 BOPD. The well is in the water curtain offsetting the MCU M-18 DCIIC selected pilot pattern.

Job Scope

Job Scope includes: MIRU. J-off. Test casing. POOH. Inspect. RIH and J-on pkr. MIT.

(Acid planned? N; Change of tubing size? /N; Paraffin expected? /N)

Work History

Dec 17 2012 - Jan 18 2013 Extensive workover and drilling operation which finally resulted in squeezing off the 4-3/4" lateral and cementing inside the 5-1/2". The 5-1/2" was then cut and pulled at 1885'. A cement plug was then set to inside the surface pipe to 1229'.

5/28/2013 - 6/27/2013: Sidetrack & Recompletion - Re-entered TA wellbore, drilled out below 10-3/4" shoe @ 1300' and set & cemented 7" csg at 5378'. Used DV tool in middle of string at 2511'. Drilled out of 7" through DC-IIC to TD at 5615', Ran OH logs, Attempted Chem-Frac & had premature ignition incident; Ran Csg Inspection logs & PT'd csg against RBP at 5336' - no apparent csg damage, Ran new 7" AS-1X injection packer & 2-7/8" injection tubing. Packer set at 5312; 1.78 "R" nipple at 5313.95; Wireline re-entry guide at 5314.36. Flowed back 232 bbls to frac tank.

7/8/2013 MI coiled tubing unit. Pump 3 bbls acid. Tight spot 5548. Pump 37 bbls acid. Broke through tight spot. Went to 5609. Worked tubing up and down. Pump total of 12,000 gallons acid. 15 min 630 psi. Flowback 253 bbls. CO2 present.

12/31/2014 MIRU Tefteller. SITP 0 pis. SICP 1000 psig. Bleed down & come right back up to 1000 psi. RIH with 1-1/4 drive down bailer to 5,436 then dropped to 5,514. POOH w bailer.

1/5/2015. Set 1.78 plug at 5,291'. Bled down tubing (CO2). No pressure on tubing. Ran audio log. Heavy noise at bottom of tubing above pkr.

1/27/2015 NU snubbing unit. Release pkr. TOO. O-ring on on/off tool was damaged. TIH w/ work string. Set RBP at 5317'. Would net set at 5350. Found hole in casing 5300 - 5308'. POOH. RIH with bit/scrapper. Tag at 5508. Clean out to 5615 with return of scale. POOH. PU AS1X pkr; YB TK-KC. Set pkr at 5220. Circ pkr fluid. Set plug. Land tubing. Retrieve plug. MIT.

9/28/2015 SITP 220, SICP 460 psig. RIH with 1.78 plug and shear off at 5,198'. POOH. Bled tbg down to 0 psig. Csg and tbg both at psig.

Procedure

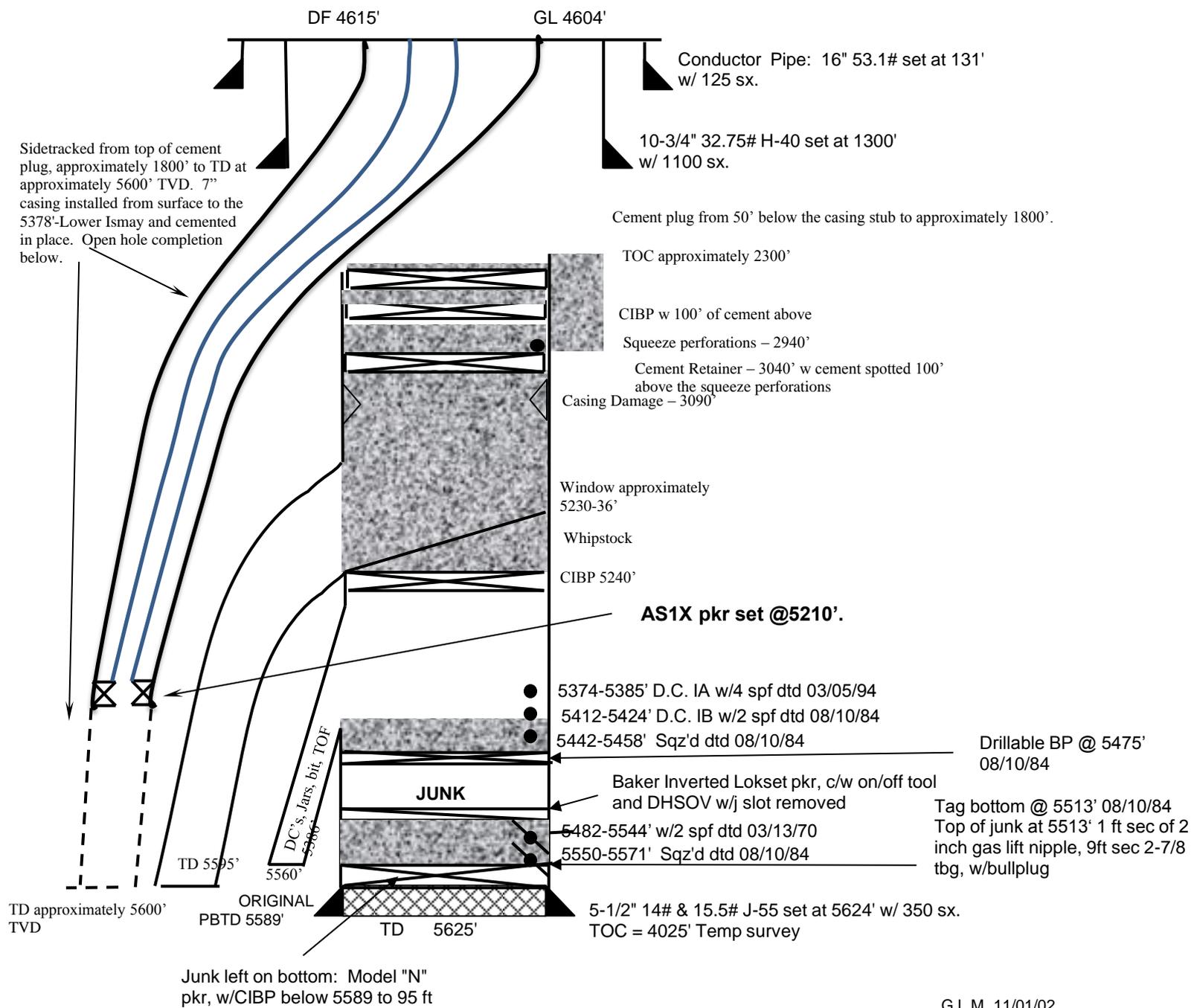
Horsley Witten: NO

1. Well has 1.78 plug set at 5,198' .
2. MIRU WSU, LOTO.
3. ND WH & NU BOP's. J-off packer. Test BOP's.
4. Circulate casing with fresh water, if needed. Pressure test casing and pkr to 1000 psi. If leakoff occurs, retest or RIH with test RBP above pkr. Retest.
5. TOOH w/2-7/8 TK Fiberline tbg , standing back & inspecting each connection , and the on/off tool. Re-run or replace tbg per inspection results.*
6. RIH w new or re-run tubing per inspection results. Replace on/off tool as needed. Circulate pkr fluid. J-on to packer.
7. Perform mock MIT. Land tubing.
8. ND BOP, NU WH. Test void to 2500 psi. RD WSU.
20. MIRU slickline unit. Test lubricator to 1000 psi.
21. RIH gauge ring, shear plug, and retrieve 1.78 plug. RDMO slickline unit.
22. Backflow the lateral line.
23. Schedule witnessed MIT w/NNEPA.
24. Notify Area Injection Supervisor Pierce Benally (435) 444-9957 that well is ready for reconnect & return

* If tubing is replaced, consult Bill Albert for tbg type to be run back in the well.

McELMO CREEK UNIT # K-18
GREATER ANETH FIELD
 1830' FNL & 1808' FWL
 SEC 7-T41S-R25E
 SAN JUAN COUNTY, UTAH
 API 43-037-16357

INJECTOR



Resolute

Well Name: MCU K-18

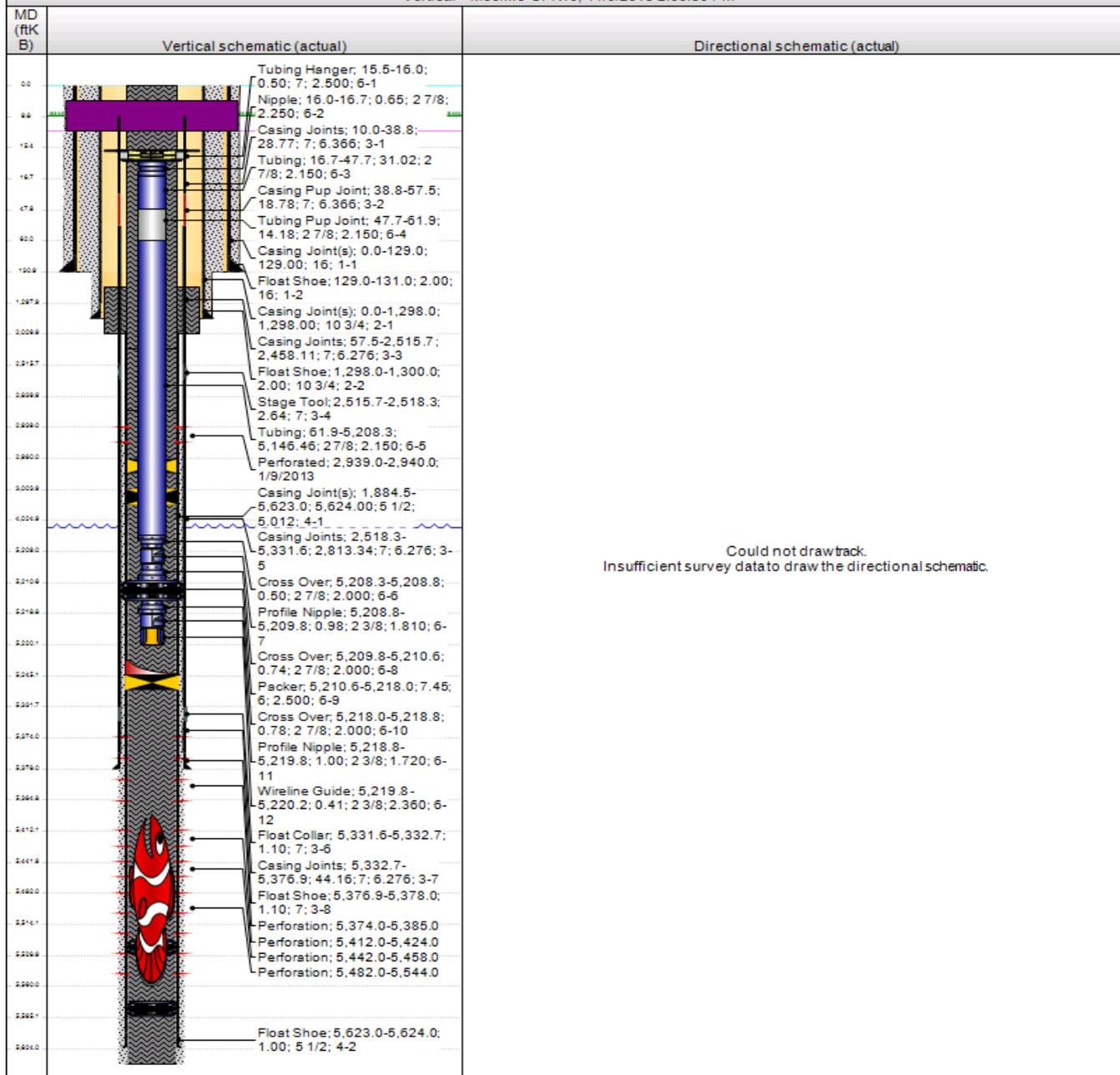
API Number 4303716357	Section 7	Qtr/Qtr SE NW	Township 41S	Range 25E	Block	Reg Spud D/Tm 2/5/1958 00:00	Field Name McElmo Creek Unit	County San Juan	State/Prov Utah	WI (%) 67.50
--------------------------	--------------	------------------	-----------------	--------------	-------	---------------------------------	---------------------------------	--------------------	--------------------	-----------------

Most Recent Job

Job Category Other	Primary Job Type Other	Secondary Job Type	Start Date 9/28/2015	End Date 9/28/2015
-----------------------	---------------------------	--------------------	-------------------------	-----------------------

TD: 5,600.0

Vertical - McElmo Cr K18, 11/9/2015 2:00:56 PM



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
1420603263

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.
UTU68930A

1. Type of Well
 Oil Well Gas Well Other: INJECTION

8. Well Name and No.
MCELMO CREEK K-18

2. Name of Operator
RESOLUTE ANETH
Contact: SHERRY GLASS
E-Mail: sglass@resoluteenergy.com

9. API Well No.
43-037-16357

3a. Address
1700 LINCOLN STREET SUITE 2800
DENVER, CO 80203

3b. Phone No. (include area code)
Ph: 303-573-4886 Ext: 1580

10. Field and Pool, or Exploratory
ANETH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 7 T41S R25E Mer NAV SENW 1830FNL 1808FWL

11. County or Parish, and State
SAN JUAN COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Workover Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Resolute proposes to attempt UIC repairs on the subject well. The proposed procedure and wellbore schematics are attached.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #323161 verified by the BLM Well Information System For RESOLUTE ANETH, sent to the Farmington	
Name (Printed/Typed) RALPH SCHULTE	Title PRODUCTION ENGINEER
Signature (Electronic Submission)	Date 11/10/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****