

Scout Report sent out   
 Noted in the N D File   
 Location map pinned   
 Approval or Disapproval Letter   
 Date Complete, P. & A, or operations suspended 10-17-57  
 Pin changed on location map   
 Affidavit and Record of A & P   
 Water Shut-Off Test   
 Gas-Oil Ratio Test   
 Well Log Filed

8/16/76 - Converted to water injection well

FILE NOTATIONS	
Entered in NID File	<input checked="" type="checkbox"/>
Entered on S.P. Sheet	<input checked="" type="checkbox"/>
Location Map Pinned	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>
IWR for State or Fee Land	<input type="checkbox"/>
Checked by Chief	<input checked="" type="checkbox"/>
Copy NID to Field Office	<input checked="" type="checkbox"/>
Approval Letter	<input checked="" type="checkbox"/>
Disapproval Letter	<input type="checkbox"/>
COMPLETION DATA	
Date Well Completed	<u>10-17-57</u>
Location Completed	<input type="checkbox"/>
Bond returned	<input type="checkbox"/>
State of Fee Land	<input type="checkbox"/>
GW <input checked="" type="checkbox"/> WW <input type="checkbox"/> TA <input type="checkbox"/>	
GW <input type="checkbox"/> OS <input type="checkbox"/> FA <input type="checkbox"/>	
LOGS FILED	
Driller's Log	<u>10-28-57</u>
Electric Logs (No. )	<u>4</u>
E <input type="checkbox"/> I <input type="checkbox"/> E-I <input checked="" type="checkbox"/> GR <input type="checkbox"/> GR-N <input type="checkbox"/> Micro <input checked="" type="checkbox"/>	
Lat <input type="checkbox"/> Mi-L <input type="checkbox"/> Sonic <input type="checkbox"/> Others <u>Radiation Log</u>	
<u>Electronic Casing (Caliper) Log</u>	

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency \_\_\_\_\_  
Window Book \_\_\_\_\_  
Allottee Navajo  
Lease No. 14-20-001-172

		S	
X			

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)

July 26, 1957, 19\_\_

Well No. Navajo G-3 is located 640 ft. from S line and 1900 ft. from W line of sec. 3

SE/4 SW/4 Sec. 3      41S      33E      R.2001  
(¼ Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)

North      San Juan      Utah  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the ~~surface~~ ground above sea level is 4925 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)

- Propose to drill a well to test Paradox Limestone to about 3930'
- Will set approximately 1400' of 10 3/4" surface casing with cement circulated to surface
- Will set 7" casing on top of or through any producing zones encountered

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

Company The Superior Oil Company  
Address Box 2 00  
Casper  
Wyoming

By J. L. Simmons  
Title District Eng.

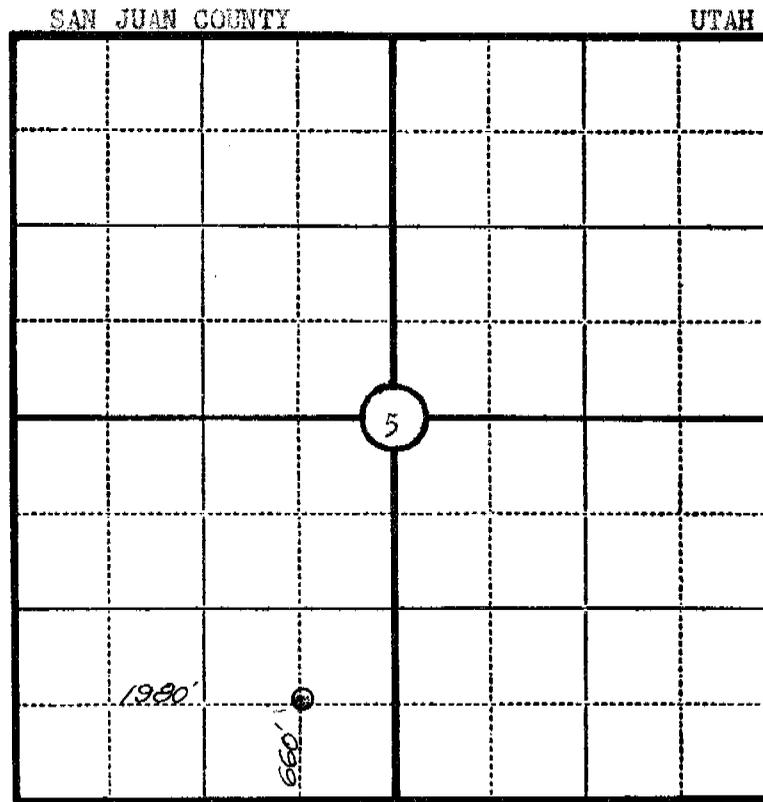
Company.....THE SUPERIOR OIL COMPANY.....

Lease.....NAVAJO "C"..... Well No. C-3

Sec..... 5....., T. 41 SOUTH....., R. 25 EAST, S.L.M.

Location..... 660' from the SOUTH LINE and 1980' from  
the WEST LINE

Elevation..... 4926.0 UNGRADED.....



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.

Seal:

*James P. Leese*

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

Surveyed ..... 13 MAY....., 19..57.

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

July 29, 1957

The Superior Oil Company  
Box 200  
Casper, Wyoming

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo C-3, which is to be located 660 feet from the south line and 1980 feet from the west line of Section 5, 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.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
SECRETARY

CBF:en

cc: Phil McGrath  
USGS, Farmington, New Mex.

Don Russell  
USGS, Salt Lake City, Utah

8



DST #1: (5655-5710)

Ran JFT on  $4\frac{1}{2}$ " D.P., dry,  $3/4$ " x 1" chokes, packers set at 5649 and 5655 with perforated anchor to 5710. Opened tool for 2 hours test. Fair blow of air decreasing to weak blow in 5 minutes and remaining so for balance of test. Pulled. Recovered 360° of gas out drilling mud.

ISIP 925#; BHFP 124# - 220#; VSIP 1630#; HP 2930#.

PERFORATIONS:	5719-5748	5826-5879
	5764-5774	5883-5890
	5779-5780	5893-5900
	5787-5791	

ACID JOB #1:

Acidized above perforations with 500 gals mud acid via Dowell, Inc. Maximum pressure 3100#/1500#; minimum and final 500#/1500#.

ACID JOB #2:

Acidized above perforations with 10,000 gals Gel-X-100 (retarded) acid via Dowell, Inc. Maximum pressure 3900#/1500#; minimum 500#/1500#; final 900#/1500#.

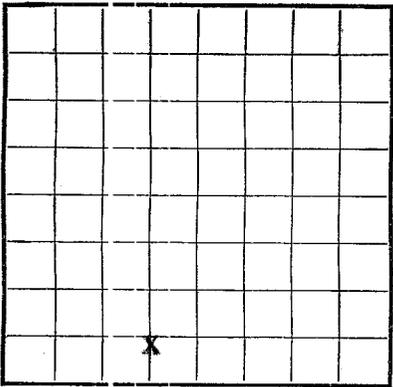
18 October 1957: Flowed 171.02 bbls in  $6\frac{1}{2}$  hours, 20/64", 460#/0#, Grab 29.1, cut 2% BSW; Flow rate: 26.31 BPH or 631.66 GPD.

OCT 28 1957

15

Form 9-38)

U. S. LAND OFFICE Window Rock  
 SERIAL NUMBER 14-20-603-372  
 LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company THE SUPERIOR OIL CO. Address Box 276, Cortez, Colo.  
 Lessor or Tract Navajo 'C' Field McElmo Creek State Utah  
 Well No. 1-3 Sec. 5 T. 41S R. 4E Meridian SLDM County San Juan  
 Location 660 ft.  $\left\{ \begin{smallmatrix} N \\ S \end{smallmatrix} \right\}$  of 5 Line and 1980 ft.  $\left\{ \begin{smallmatrix} E \\ W \end{smallmatrix} \right\}$  of 5 Line of Sec 5 Elevation 4925  
(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 \_\_\_\_\_

Date 25 October 1957 Title Pet. Engr.

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

Commenced drilling 21 August, 19 57 Finished drilling 17 October, 19 57

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5719 to 5900 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ 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-	
<u>10-3/4"</u>	<u>32.75</u>	<u>8</u>	<u>8</u>	<u>1235</u>	<u>Float</u>		<u>5719</u>	<u>5748</u>	
<u>7"</u>	<u>21.8</u>	<u>8</u>	<u>8</u>	<u>5950</u>	<u>11 1/2"</u>		<u>5764</u>	<u>5774</u>	
							<u>5774</u>	<u>5791</u>	
							<u>5787</u>	<u>5791</u>	
							<u>5826</u>	<u>5829</u>	
							<u>5883</u>	<u>5890</u>	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-3/4"</u>	<u>1235</u>	<u>800</u>	<u>Circulated</u>		
<u>7"</u>	<u>5950</u>	<u>900</u>	<u>Pump &amp; Plugs</u>		

PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
 S—Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

FOLD MARK

FOLD MARK

Casing	10-3/4"	1235	800	Circulated
	7"	5950	900	Pump & Plugs

**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 0 feet to 5950 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

**DATES**

\_\_\_\_\_, 19\_\_\_\_ Put to producing 17 October 19 57  
 The production for the first 24 hours was 631.44 barrels of fluid of which 98% was oil; \_\_\_\_\_%  
 emulsion; 2% water; and \_\_\_\_\_% sediment. Gravity, °Bé. 39.1  
 If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_

**EMPLOYEES**

Exploration Drig. Co., Driller \_\_\_\_\_, Driller  
 Rig #15 \_\_\_\_\_, Driller \_\_\_\_\_, Driller

**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
			Top of Shinerump 2607
			" " De Chelly 2810
			" " Organ Rock 2963
			" " Hermosa 4734
			" " Upper B B 5572
			" " Paradox Shale 5708 (-772)
			" " Lower B B 5714 (-778)
			" " Base Lower B B 5916 (-980)
			Total Depth 5950

INITIAL WELL TEST

McELMO CREEK UNIT #0-16

DATE October 17, 1957

OIL BBL/DAY 618

OIL GRAVITY 39.1

GAS CU.FT/DAY \_\_\_\_\_

GAS-OIL RATIO CU/FT/BBL \_\_\_\_\_

WATER BBL/DAY 13

PUMPING/FLOWING F

CHOKE SIZE 20/64

FLOW TUBING PRESSURE 520

# THE SUPERIOR OIL COMPANY

DRILLING & PRODUCTION DEPT.

P. O. BOX 200

CASPER, WYOMING

October 30, 1957

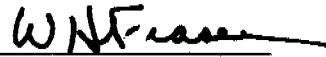
United States Geological Survey  
P. O. Box 965  
Farmington, New Mexico

Attached are the electrical logs run on Superior's Navajo C-3 well located in Section 5, T41S, R25E, San Juan County, Utah.

The completion notices and Log of Oil or Gas Well were previously sent to you by our Cortez office.

THE SUPERIOR OIL COMPANY

By



W. H. Fraser

RLH:jg  
w:Attach.

cc:w/Attach.  
Oil and Gas Conservation Commission  
140 State Capitol Building  
Salt Lake City 14, Utah

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

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-372

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek Unit

8. FARM OR LEASE NAME

9. WELL NO.

#0-16

10. FIELD AND POOL, OR WILDCAT

McElmo Creek

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

Sec. 5, 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

P. O. 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 SW Sec. 5, T41S, R25E  
San Juan County, Utah

14. PERMIT NO.

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

4938' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

Squeeze & Reperforate

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(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.)\*

Propose to set retainer at 5800' and squeeze off perforations 5826-5900'.

Will stimulate perforations 5719-5791' with 12,000 gallons 28% acid.

Ismay zone will be perforated 5668-86' and stimulated with 5,000 gallons 28% acid.

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

SIGNED

*D. D. Kingman*  
D. D. Kingman

TITLE

Production Engineer

DATE

October 20, 1965

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DDK/njh

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TR...  
(Other instructions on re-verse side)

Form approved.  
Budget Bureau No. 42-R1424

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-372	
2. NAME OF OPERATOR THE SUPERIOR OIL COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, COLORADO		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FSL, 1980' FWL SE SW Sec. 5, T41S, R24E San Juan County, Utah		8. FARM OR LEASE NAME McElmo Creek	
14. PERMIT NO.		9. WELL NO. #0-16	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4938' KB		10. FIELD AND POOL, OR WILDCAT McElmo Creek Unit	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T41S, R24E	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

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) <u>Squeeze &amp; Reperforate</u>	

(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.)\*

PBTD - 5810'

Squeeze all perfs with 435 sacks cement with 0.6% Halad #9.  
Drill out to 5810'. Circulate hole clean. Perforate Ismay 5668-86';  
Desert Creek 5719-48', 5764-74', 5779-84', 5787-91' with 2 jets per ft. 66' - 133 holes.  
Acid Job #1 - Stage #1 - Perfs 5764-5791' with 5000 gal 28% acid. Flushed with 6500 gal water.  
Acid Job #1 - Stage #2 - Perfs 5719-5748'.with 5000 gal 28% acid. Flushed with 6500 gal water.  
Acidize Ismay perfs - 5668-86' with 5000 gal 28% acid. Flushed with 6500 gal water.  
12-5-65 Test - 287 bbls in 24 hrs. Cut 1%, Gty 40.4°.  
12-6-65 Test - 289 bbls in 24 hrs. Cut 15%, Gty 40.6°, Pressure 80/0.  
Ismay and Desert Creek production is commingled.

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

SIGNED D. D. Kingman TITLE Production Engineer DATE 12/9/65  
D. D. Kingman  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

MJE/njh

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-603-263</b>
2. NAME OF OPERATOR <b>THE SUPERIOR OIL COMPANY</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>NAVAJO</b>
3. ADDRESS OF OPERATOR <b>P. O. DRAWER 'G', CORTEZ, COLORADO 81321</b>		7. UNIT AGREEMENT NAME <b>McELMO CREEK UNIT</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>660' FSL &amp; 1980' FWL, SEC. 5, T41S, R25E</b>		8. FARM OR LEASE NAME
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4938' KB</b>	9. WELL NO. <b>MCU #0-16</b>
		10. FIELD AND POOL, OR WILDCAT <b>GREATER ANETH</b>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>SECTION 5, T41S, R25E</b>
		12. COUNTY OR PARISH <b>SAN JUAN</b>
		13. STATE <b>UTAH</b>

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 PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
<b>CONVERT TO WATER INJECTION WELL</b>		(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.)\*

PROCEDURE:

1. RU completion unit. Pull and lay down rods, pump and tubing.
2. Set CI BP at 5695'
3. Run 2-7/8" work string and squeeze packer.
4. Set packer at 5550'.
5. Squeeze Ismay perfs 5668-5686' w/350 sacks cement.
6. Drill out, squeeze and run bit and casing scraper to 5800'. Pull and lay down work string and packer.
7. Run 2-7/8" NU-Lock TK-75 lined tubing and Baker Lok-Set packer. Set packer at 5700'.
8. Hook well up for Desert Creek Zone I Injection.

APPROVED BY THE DIVISION OF  
COMPLETION AND WORKING

DATE **Aug. 19, 1976**

*P. L. Driscoll*

ORIGINAL SIGNED BY P. L. DRISCOLL

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

SIGNED *David G. Allison* TITLE Engineer DATE August 16, 1976  
**David G. Allison**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DGA/1h

Orig. + 3 - USGS, State (2), J. K. Lawson, W. N. Mosley, J. M. Moter,  
D. H. Collins, W. J. Mann, Nav. Tribe \*See Instructions on Reverse Side  
WIO, File

WATER INJECTION WELL

660' FSL, 1980' FWL  
SE SW Sec 5, T41S, R24E 25  
San Juan County, UTAH

FIELD: MC ELMO CREEK

KB: 4936' DF: 4935' GL: 4925' TD: 5950' PBTD: 5808' TLD: 9.00'

SPUDED: 8-21-57 COMPLETED: 10-17-57

TOC: 2612'

INJECTION ZONE: Desert Creek Zone 1

PERFS: Zone 1 5719-48', 5753-84', 5787-91' (2 Jets/ft)

CASING: 10-3/4" 32.75# H-40 8R R2 ST&C w/800 sx. 38 Jts. 1235'

7" 8R w/700 Sx:	1 Jt. 23# N-80 LT&C	35'
	2 Jts 23# J-55 LT&C	92'
	95 Jts 20# J-55 ST&C	4144'
	40 Jts 23# J-55 LT&C	5790'
	-5 Jts 23# N-80 LT&C	5950'

TUBING: 2-7/8" J2 Nu-lock w/TK-75 lining to 5672' . Avg. jt. length 30.4'.

PACKERS: Baker Loc-set @ 5668' .

PMPG. EQUIP: Injection Equipment.

REMARKS:

WELL HEAD: Rector

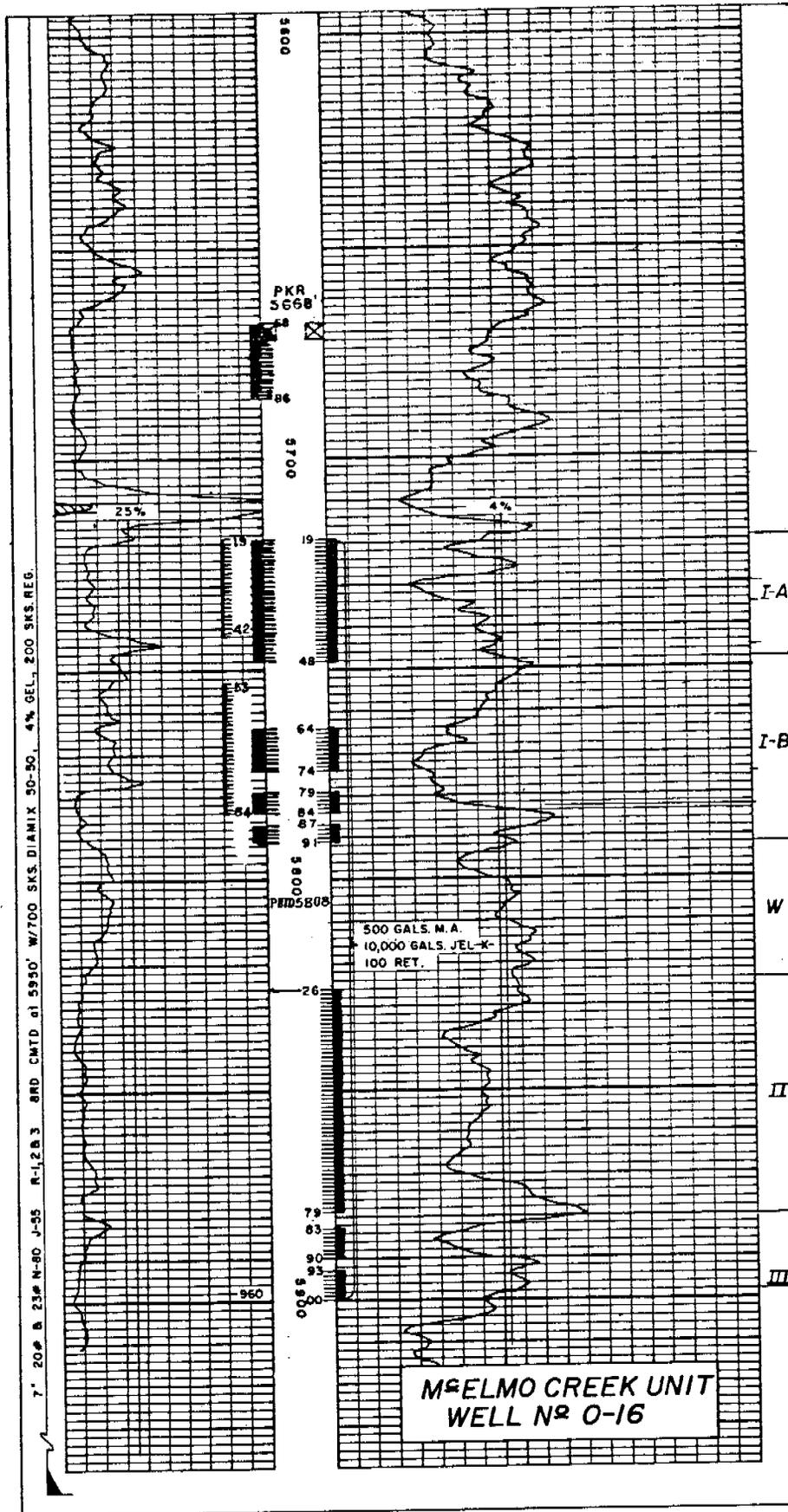
10-17-57 Perfd 5719-48', 5764-74', 5779-84', 5787-91', 5826-79', 5883-90', 5893-5900'. Acidized w/10,000 gal Jel-X-100. Final pressure 900#, on vac in 5 minutes.

11/20-23/65 Squeezed all perfs. Perfd 5668-86', 5719-48', 5764-74', 5779-84', 5787-91'. Treated 5764-91', 5719-48', 5668-86' individually w/5000 gal. 28% acid in each.

10-12/11-13-76 Set BP @ 5695', squeezed Ismay perfs. Perfd 5719-42', 5753-84', acidized Zone 1 w/3000 gal. HCl. FP 2800#, ISIP 2400#. Placed well on injection.

5-14-79 Removed 2 tubing joints.

5-2-80 Treated all perforations with 28% acid.



12-5-65. Squeezed all perms with 435 Sks. cmt. with 6% Halod 9.  
 Drilled out to 5810': Perfed 5668-86', 5719-48', 5764-74', 5779-84', 5787-91'  
 Acidize perms. 5764-91' with 5000 gals. 28% acid, flushed with 6500 gals. water.  
 Acidize perms. 5719-48' with 5000 gals. 28% acid, flushed with 6500 gals. water.  
 Acidize perms. 5668-86' with 5000 gals. 28% acid, flushed with 6500 gals. water.

10/12/76: Set Ret Brg Plg @ 5695'  
 Squeezed Ismay perms w/410 sxs, 24 sxs below tools; cement went to lower perms  
 10/14/76: Drld cmt, milled brg pl drld cmt on to PBD 5808'  
 11/9/76: Prfd D.C. Zone I 5719-42 5753-84', Trtd w/3,000 gal 28% HCL in 2 stgs w/fr. water flush & TDA plg  
 11/14/76: Instld Inj String  
 5-2-80: Trtd all perms w/28% acid.

WATER TRACER SURVEY, 10-1-80, 3758WPD

d. 5898

**McELMO CREEK UNIT**  
 THE SUPERIOR OIL CO. OPERATOR  
 SE SW SEC. 5, T41 S, R24 E.  
 SAN JUAN COUNTY, UTAH.  
 ELEV. 4938' K.B. T.D. 5950'

Rev: 12-23-76

*Water Injection*  
 Well No. 0-16

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	HCO3: 109.8 ppm	Na: -
CaCO3: 18470 ppm	CO3: -	Specific Gravity: 1.0553

McElmo Creek Unit

(5) cont.

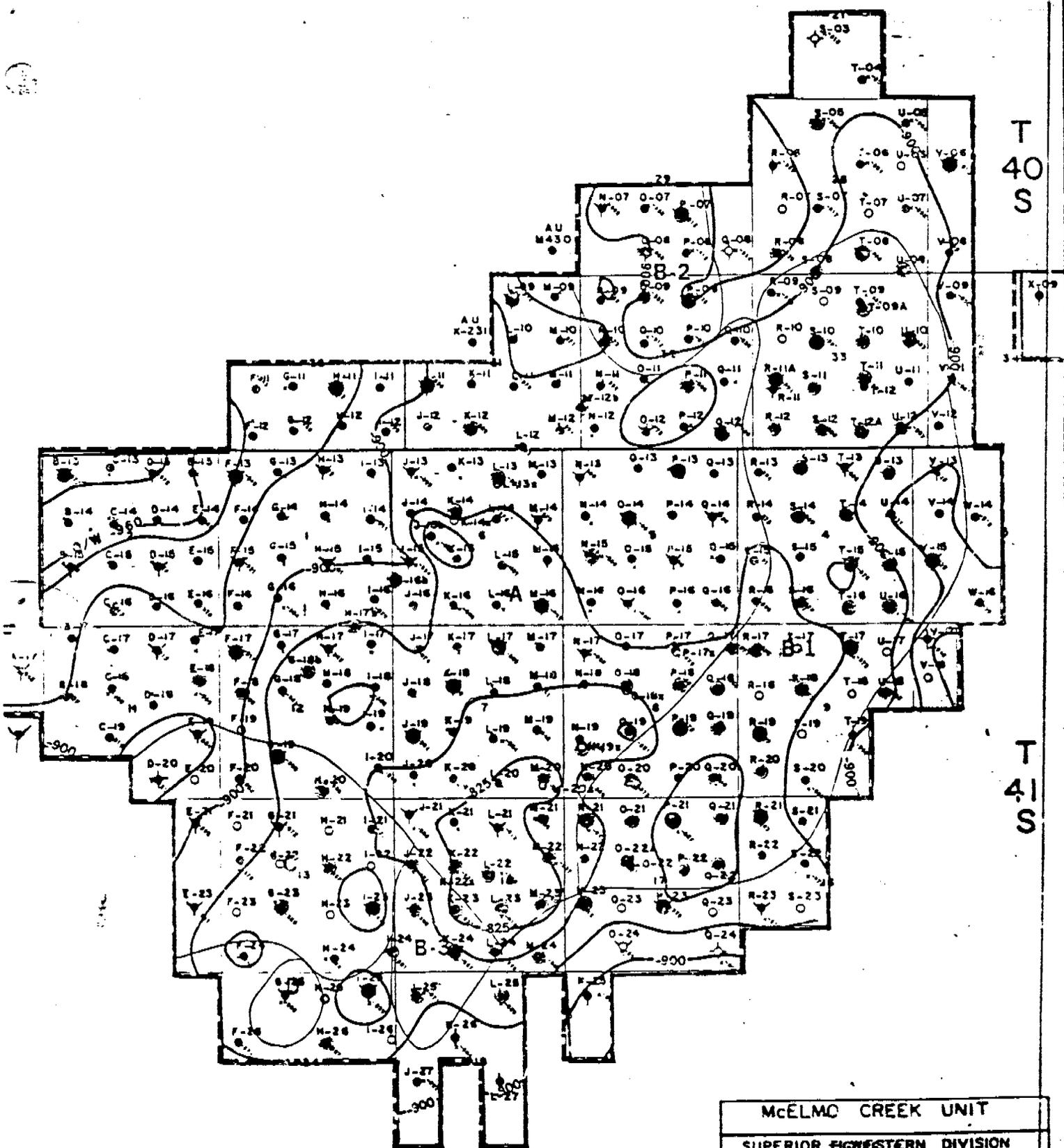
- (iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.
- (v) Fresh 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      | HC03: 48.8 ppm | Ba: -                    |
| CaC03: 22150 ppm | C03: -         | 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 WESTERN DIVISION	
McELMO CREEK UNIT	
SAN JUAN COUNTY, UTAH	
SUPERIOR WESTERN DIVISION	
STRUCTURE 1	
BY: TOP OF	
DESERT CREEK LIMESTONE, E2	
DATE: 4-14-73	
DRAWING NO.	
BY:	SCALE:
DATE:	C.I.: 25ft.
CHECKED:	DRAWN BY:

**CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW**

Operator: Superior Well No. McLean Creek Unit 016  
 County: San Juan T 11E R 35E Sec. 5 API# 43-037-15969  
 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>70000+</u>	
Known USDW in area	<u>Paria-Chula</u> Depth <u>1300</u>	
Number of wells in area of review	<u>10</u> Prod. <u>6</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 <input type="checkbox"/> Type <input type="checkbox"/>	

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Reviewed by: *[Signature]*

7 4

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLA  
(Other instructions on re-  
verse side)

Public Law 99-1004, 1004-101  
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.  OIL WELL  GAS WELL  OTHER INJECTION WELL

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 600' FSL, & 1980' FWL, SECTION 5

14. PERMIT NO. \_\_\_\_\_ 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
KB: 4936'

RECEIVED

MAR 18 1985

DIVISION OF OIL  
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-372

6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO

7. UNIT AGREEMENT NAME McElmo Creek Unit

8. FARM OR LEASE NAME \_\_\_\_\_

9. WELL NO. #0-16

10. FIELD AND POOL, OR WILDCAT GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 5, T41S, R25E, S1M

12. COUNTY OR PARISH SAN JUAN 13. STATE UTAH

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 COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" 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 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.)\*

- 02-04-85: MIRU. ND. wellhead. NU BOP's.
- 02-05-85: POH w/ 2-708" P.C. tbg & 7" pkr. Ran GR-CCL from PBD (5788') 50 5500'. Set CIBP @ 5710'. PU and RIH w/ 7" pkr & 2-7/8" workstring.
- 02-06-85: Sqz'd csg leak (5684'-5706') w/ 150 sx (177 ft<sup>3</sup>) cmt. Reversed out 20 bbls cmt. PU 3 stands and reset pkr. Pressured tbg to 2000# & csg to 1000#.
- 02-07-85: Released press on tbg & csg. POH w/ pkr & tbg. RIH w/ bit, scraper and tbg. Drilled hard cmt from 5590' to 5653.
- 02-08-85: Drilled out of cmt @ 5708' & press csg to 1500# w/ no loss. Drilled out CIBP and cleaned out fill to 5808'.
- 02-09-85: POH w/ tbg, bit and scraper. Perfed the Desert Creek I from 5720-42' & 5753-83' w/ 2 JSPF. RIH w/ pkr and tbg.
- 02-11-85: Set pkr @ 5708'. Acidized D. C. I perms w/ 1000 gals 28% HCL & 4000 gals retarded 28% HCL - broke down sqz on backside. Flushed tbg and POH w/ tbg & pkr.
- 02-12-85: Set CIBP @ 5712'. RIH w/ CR, stinger and 2-7/8" tbg. Set CR @ 5650'. Re-squeezed csg leak w/ 100 sx cmt. POH w/ stinger & tbg. RIH w/ bit, scraper and tbg.
- 02-13-85: Drilled out cmt retainer.
- 02-14-85: Drilled out 60' cmt.
- 02-15-85: TOH & c/o bit. Drilled out cmt & CIBP. Plug hung up @ 5790'.

CONTINUED ON PAGE 2

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

SIGNED J. Greg Morrison TITLE Sr. Operations Engineer DATE 3-12-85

(This space for Officers or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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 ELKO CREEK	N-11 ✓	SAN JUAN	UT	NW	SE	32-40S-25E	INJ OP	43-037-15965	14-20-603-372		96-004190
	N-13 ✓	SAN JUAN	UT	NW	NW	05-41S-25E	INJ OP	43-037-15966	14-20-603-372		96-004190
	N-15 ✓	SAN JUAN	UT	SW	NW	05-41S-25E	INJ OP	43-037-05671	14-20-603-372		96-004190
	N-17 ✓	SAN JUAN	UT	NW	NW	08-41S-25E	INJ OP	43-037-05597	14-20-603-263		96-004190
	N-19 ✓	SAN JUAN	UT	NW	SW	08-41S-25E	INJ OP	43-037-05540	14-20-603-263		96-004190
	N-21 ✓	SAN JUAN	UT	NW	NW	17-41S-25E	INJ OP	43-037-05492	14-20-603-263		96-004190
	N-23 ✓	SAN JUAN	UT	NW	SW	17-41S-25E	INJ OP	43-037-16364	14-20-603-263		96-004190
	O-12 ✓	SAN JUAN	UT	SE	SW	32-40S-25E	INJ OP	43-037-16371	14-20-603-372		96-004190
	O-14 ✓	SAN JUAN	UT	SE	NW	05-41S-25E	INJ OP	43-037-16365	14-20-603-372		96-004190
	O-16 ✓	SAN JUAN	UT	SE	SW	05-41S-25E	INJ OP	43-037-15969	14-20-603-372		96-004190
	O-18 ✓	SAN JUAN	UT	SE	NW	08-41S-25E	INJ OP	43-037-05585	14-20-603-263		96-004190
	P-07 ✓	SAN JUAN	UT	NW	SE	29-40S-25E	INJ OP	43-037-05828	I-149-IND-8839-A		96-004190
	P-09 ✓	SAN JUAN	UT	NW	NE	32-40S-25E	INJ OP	43-037-16367	14-20-603-372		96-004190
	P-11 ✓	SAN JUAN	UT	NW	SE	32-40S-25E	INJ OP	43-037-15971	14-20-603-372		96-004190
	P-13 ✓	SAN JUAN	UT	NW	NE	05-41S-25E	INJ OP	43-037-16368	14-20-603-372		96-004190
	P-15 ✓	SAN JUAN	UT	NW	SE	05-41S-25E	INJ OP	43-037-16340	14-20-603-372		96-004190
	P-17 ✓	SAN JUAN	UT	NW	NE	08-41S-25E	INJ OP	43-037-15976	14-20-603-263		96-004190
	P-19 ✓	SAN JUAN	UT	NW	SE	08-41S-25E	INJ OP	43-037-05555	14-20-603-263		96-004190
	P-21 ✓	SAN JUAN	UT	NW	NE	17-41S-25E	INJ OP	43-037-05487	14-20-603-263		96-004190
	P-23 ✓	SAN JUAN	UT	NW	SE	17-41S-25E	INJ OP	43-037-16370	14-20-603-263		96-004190
	Q-12 ✓	SAN JUAN	UT	SE	SE	32-40S-25E	INJ OP	43-037-05720	14-20-603-372		96-004190
	Q-14 ✓	SAN JUAN	UT	SE	NE	05-41S-25E	INJ OP	43-037-15974	14-20-603-372		96-004190
	Q-16 ✓	SAN JUAN	UT	SE	SE	05-41S-25E	INJ OP	43-037-15975	14-20-603-372		96-004190
	R-11 ✓	SAN JUAN	UT	NW	SW	33-40S-25E	INJ SI	43-037-05741	14-20-603-2057		96-004190
	R-11A ✓	SAN JUAN	UT	NW	SW	33-40S-25E	INJ OP	43-037-30179	14-20-603-2057		96-004190
	R-13 ✓	SAN JUAN	UT	NW	NW	04-41S-25E	INJ OP	43-037-05709	14-20-603-2057		96-004190
	R-17 ✓	SAN JUAN	UT	NW	NW	07-41S-25E	INJ OP	43-037-05602	14-20-603-359		96-004190
	R-19 ✓	SAN JUAN	UT	NW	SW	09-41S-25E	INJ OP	43-037-05554	14-20-603-359		96-004190
	R-21 ✓	SAN JUAN	UT	NW	NW	16-41S-25E	INJ OP	43-037-16374	14-20-603-359		96-004190
	R-23 ✓	SAN JUAN	UT	NW	SW	16-41S-25E	INJ OP	43-037-15977	14-20-603-359		96-004190

Converted 1976 ✓

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

OPERATOR: MEPNA

FIELD: Greater Aneth LEASE: McElmo Creek

WELL # 0-16 (NAV. C-3) SEC. 5 TOWNSHIP 41S RANGE 25E

STATE FED. FEE DEPTH 5950 TYPE WELL INJW MAX. INJ. PRESS. 2800 psi  
PBTD 5808 *Water Tracker Log 10/7/85* 4000 BWPD

TEST DATE 9/10/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>10 3/4"</u>	<u>1235</u>	<u>800 SX</u>	<u>—</u>	<u>Open valve at bradenhead</u>	
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>	<u>7"</u>	<u>5950'</u>	<u>200 SX</u>	<u>0#</u>		
					<u>Conn 445872</u>	
<u>TUBING</u>	<u>2 7/8</u>			<u>1550#</u>		

*Baker lap set at 5668'*

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>						

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

**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.  
**14-20-603-372**

6. If Indian, Allottee or Tribe Name  
**Navajo**  
Unit or CA, Agreement Designation

**SUBMIT IN TRIPLICATE**

**RECEIVED**  
**JUL 13 1990**

1. Type of Well  
 Oil Well  Gas Well  Other **Injection Well**

2. Name of Operator  
**MOBIL OIL CORPORATION**

3. Address and Telephone No. **%Mobil Exploration & Producing U.S. Inc.**  
**P.O. Box 633 Midland, Texas 79702**

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

**Elmo Creek Unit**  
Well Name and No.

**0-16**

9. API Well No.  
**43-037 15969**

10. Field and Pool, or Exploratory Area  
**Greater Aneth**

11. County or Parish, State

**600' FSL, 1980' FWL Sec.5 T. 41S R. 25E**

**San Juan, Utah**

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 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 type="checkbox"/> Other
	<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

**Conversion to CO<sub>2</sub>**

(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.)\*

- 6-20-90 MIRU. Rel. pkr. POOH w/185 jts 2 7/8 tbg.
- 6-21-90 Drill & circ. to 5718'. Circ. hole clean. POOH w/tbg. Dump 4sx down hole
- 6-22-90 Tag sand @ 5718', circ. 3sx sand. RIH w/7" CIBP @ 5714'w/50sx plug of C1 G Press. test to 1000 psi/Held.
- 6-25-90 POH w/tbg. Tag cmt @ 5574' Drill, circ. down to 5669
- 6-26-90 Tag CIBP. Tress test to 1000 psi/Held. Drill & clean to PBD. Pump problems.
- 6-27-90 Circ. hole w/FW. POOH w/tbg & tools. Set pkr. @ 5715'. Press test to 1000 psi/Held./30 min.
- 6-29-90 Rel pkr. reset to 5670'. Press tested 1000 psi/30 min./Held. Lay down work string & Lok-set.
- 7-02-90 Ran ing. string & pkr. Press. test to 3000 psi/OK
- 7-03-90 Attempt to pump out plug. POOH w/tbg. & pkr
- 7-05-90 RIH w/tbg. set pkr. Press test @ 1200 psi/30 min/held. RD & Re Conversion made for CO<sub>2</sub> injection

**247 044 010**  
MAY 11 1990  
M. J. ...

**UIC**  
**GLH**  
**DJY**  
**COMPUTER**  
**MICROFILM**  
**FILE**

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

Signed **Shirley ...**

Title

Date **7-11-90**

(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.

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.  
14-20-603-372

6. If Indian, Allottee or Tribe Name  
NAVAJO TRIBAL

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

8. Well Name and No.  
O-16

9. API Well No.  
43-037-15969

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)  
660' FSL, 1980' FWL SEC. 5, T41S, R25E

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"/> 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 SQUEEZE W/ELASTOMER CMT
	<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.)\*

SEE ATTACHMENT

8-7-92  
*J.M. Matthews*

**RECEIVED**  
AUG 06 1992  
DIVISION OF  
OIL, GAS & MINING

**RECEIVED**  
AUG 06 1992  
DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct  
Signed *Shirley Todd* SHIRLEY TODD Title ENV. & REG. TECHNICIAN Date 8-4-92

(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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**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

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

5. Lease Designation and Serial No.  
**14-20-603-372**

6. If Indian, Allottee or Tribe Name  
**NAVAJO TRIBAL**

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

8. Well Name and No.  
**O-16**

9. API Well No.  
**43-037-15969**

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)  
**660' FSL, 1980' FWL SEC.5, T41S, R25E**

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 <b>ELASTOMER SQUEEZE</b>
	<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.)\*

9-14-92 MIRU BLOW DOWN TO TEST TANK NU BOP REL. PKR POH W/TBG.

9-15-92 TAG FILL @5765'. SET CIBP @5713'.

9-16-92 CIRC. WELL W/10.0 BBLS FW W/6 BBLS OF ELASTOMER CMT + 76 RCNBS W/5 BBLS FW TAIL & 3 BBLS SW DISPLACEMENT @ 2.5 BPM W/PRESS. INCREASING FROM 900-1950. 10 MIN SI PRESS. - 1150 PSI BLED WELL BACK TO 815 PSI.

9-22-92 JET PERF INTERVAL W/FW SEEN OLD CMT & ELASTOMER CMT. RIH W/2 3/8 CMT LINED TBG. ND BOP. RD & REL.

**RECEIVED**  
OCT 13 1992  
DIVISION OF  
OIL, GAS & MINING

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

Signed Shirley Todd **SHIRLEY TODD** Title **ENV. & REG. TECHNICIAN** Date **10-2-92**

(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.

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

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <b>INJECTION WELL</b>	5. Lease Designation and Serial No. <b>14-20-603-372</b>
2. Name of Operator <b>MOBIL OIL CORPORATION</b>	6. If Indian, Allottee or Tribe Name <b>NAVAJO TRIBAL</b>
3. Address and Telephone No. <b>P O BOX 633 MIDLAND, TX 79702 (915) 688-2585</b>	7. If Unit or CA, Agreement Designation <b>MCELMO CREEK UNIT</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>600 FSL, 1980 FWL SEC. 5, T41S, R25E</b>	8. Well Name and No. <b>O-16</b>
	9. API Well No. <b>43-037-15969</b>
	10. Field and Pool, or Exploratory Area <b>GREATER ANETH</b>
	11. County or Parish, State <b>SAN JUAN, UT</b>

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
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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <b>SQUEEZE</b>
	<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.)\*

10-21-92 MIRU NU BOP. POH W/2 7/8 TBG.  
 10-22-92 RETAINER STUCK AT 5625'. SHEAR OFF CMT RETAINER.  
 10-23-92 TAGGED RETAINER AND DRILLED OUT.  
 10-25-92 CONTINUED DRILLING OUT CMT RET.  
 10-26-92 DISPLACE 10# BRINE W/8.33 WTR WHILE HOLDING 600 PSI BACK PRESS. PUMPED 6 BBLS ELASTOMER CMT FOLLOWED W/29 BBLS FRESH WTR. PUMPED 1.25 BBLS BEHINE PIPE. REVERSED OUT 2 BBLS DEHY. ELASTOMER CMT.  
 10-28-92 DRILL 10' ELASTOMER CMT TO RET. DRILL RET & 2' ELASTOMER CMT OF GOOD CONSISTENCY. CIRC. CLEAN.  
 10-29-92 DRILL ELASTOMER SQZ FROM 5648' TO 5698'. CIRC. CLEAN.  
 10-31-92 DRLG ELAST. CMT 5698' - 5713'. TEST SQZ TO 500 PSI. LOST 100 PSI IN 20 MIN TO 400 PSI & HELD STEADY.  
 11-01-92 DRIL CIBP @ 5713'.  
 11-02-92 DRILL JUNK  
 11-06-92 SET PKR @ 5656' W/14m# COMP. PRESS. ANN. TO 1000# BLED OFF 250# IN 15 MIN.  
 11-08-92 PRESS TBG TO 1000# & BLED OFF 150# IN 5 MIN. W/FLUID. PRESS. ANN. & TB TO 1000#, NO LOSS  
 11-09-92 FOUND LOOSE CONNECTION AND REPLACED.  
 11-10-92 ND BOP TESTED ANN TO 1000# FOR 30 MON/OK.  
 11-12-92 RAN MIT - PRESS. TO 1000#/30 MIN./OK. KEN LINGO W/EPA WITNESSED MIT. TURN WELL TO PRODUCTION.

RECEIVED  
DEC 04 1992

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

Signed Shirley Todd SHIRLEY TODD Title ENV. & REG. TECHNICIAN Date 11-30-92

(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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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**RECEIVED**  
DEC 07 1992

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**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**600 FSL, 1980 FWL SEC. 5, T41S, R25E**

**DIVISION OF  
OIL GAS & MINING**

**(915) 688-2585**

5. Lease Designation and Serial No.  
**14-20-603-372**

6. If Indian, Allottee or Tribe Name  
**NAVAJO TRIBAL**

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

8. Well Name and No.  
**O-16**

9. API Well No.  
**43-037-15969**

10. Field and Pool, or Exploratory Area  
**GREATER ANETH**

11. County or Parish, State  
**SAN JUAN, UT**

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

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

Signed Shirley Todd SHIRLEY TODD

Title ENV. & REG. TECHNICIAN

Date 11-30-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

1- <del>VLC</del>	7- <del>PL</del>
2- <del>LWP</del>	8- <del>SJ</del>
3- <del>DES</del>	9- <del>FILE</del>
4- <del>VLC</del>	
5- <del>RJF</del>	
6- <del>LWP</del>	

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                              **XXX** Operator Name Change Only

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

TO (new operator) <b>MOBIL EXPLOR &amp; PROD</b>	FROM (former operator) <b>M E P N A</b>
(address) <b>C/O MOBIL OIL CORP</b>	(address) <b>C/O MOBIL OIL CORP</b>
<b>PO DRAWER G</b>	<b>PO DRAWER G</b>
<b>CORTEZ CO 81321</b>	<b>CORTEZ CO 81321</b>
phone <b>(303) 564-5212</b>	phone <b>(303) 564-5212</b>
account no. <b>N7370</b>	account no. <b>N7370</b>

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

Name: <b>** SEE ATTACHED **</b>	API: <u>037-15969</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: _____
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.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- Yes 6. Cardex file has been updated for each well listed above. 8-21-95
- Yes 7. Well file labels have been updated for each well listed above. 9-28-95
- Yes 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)
- Yes 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**

- Lee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/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/ Lee 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. *UTS 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 19 95.

**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 UIC F5/Not necessary!

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File \_\_\_\_\_  Suspense \_\_\_\_\_  Other \_\_\_\_\_  
(Location) Sec. Twp. Rng. (Return Date) \_\_\_\_\_ OPER. NM CHG \_\_\_\_\_  
(API No.) \_\_\_\_\_ (To - Initials) \_\_\_\_\_

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).

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

**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: <b>06-01-2001</b>	
<b>FROM:</b> (Old Operator):	<b>TO:</b> (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**

<b>WELL(S)</b>						
NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MCELMO CREEK S-16	04-41S-25E	43-037-16152	5980	INDIAN	WI	A
MCELMO CR U-14	04-41S-25E	43-037-16156	5980	INDIAN	WI	A
MCELMO CR U-16	04-41S-25E	43-037-16157	5980	INDIAN	WI	A
NAVAJO P-4 (MCELMO R-13)	04-41S-25E	43-037-16148	99990	INDIAN	WI	A
NAVAJO P-1 (MCELMO R-15)	04-41S-25E	43-037-16149	99990	INDIAN	WI	A
NAVAJO P-6 (MCELMO T-13)	04-41S-25E	43-037-16378	99990	INDIAN	WI	A
NAVAJO P-5 (MCELMO T-15)	04-41S-25E	43-037-16379	99990	INDIAN	WI	A
NAVAJO 11-5 (MCELMO N-13)	05-41S-25E	43-037-15966	99990	INDIAN	WI	A
<del>NAVAJO C-3 (MCELMO O-16)</del>	05-41S-25E	43-037-15969	99990	INDIAN	WI	A
NAVAJO C-8 (MCELMO P-15)	05-41S-25E	43-037-15972	99990	INDIAN	WI	A
NAVAJO C 42-5 (MCELMO Q-14)	05-41S-25E	43-037-15974	99990	INDIAN	WI	A
NAVAJO C-5 (MCELMO Q-16)	05-41S-25E	43-037-15975	99990	INDIAN	WI	A
NAVAJO C-6 (MCELMO N-15)	05-41S-25E	43-037-16363	99990	INDIAN	WI	A
NAVAJO C 22-5 (MCELMO O-14)	05-41S-25E	43-037-16365	99990	INDIAN	WI	A
NAVAJO C-31-5 (MCELMO P-13)	05-41S-25E	43-037-16368	99990	INDIAN	WI	A
NAVAJO C 13-6 (MCELMO J-15)	06-41S-25E	43-037-15954	99990	INDIAN	WI	A
NAVAJO C 22-6 (MCELMO K-14)	06-41S-25E	43-037-15956	99990	INDIAN	WI	A
MCELMO CR K-16	06-41S-25E	43-037-15957	5980	INDIAN	WI	A
NAVAJO C 31-6 (MCELMO L-13)	06-41S-25E	43-037-15959	99990	INDIAN	WI	A
NAVAJO 33-6 (MCELMO L-15)	06-41S-25E	43-037-15960	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 Company**  
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.

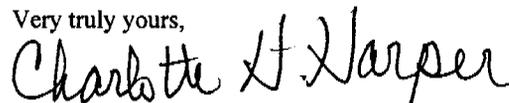
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

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**

2001-08-30 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,

**DEAN DENETSONE**

Regional Realty Officer

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

<b>MINERAL RESOURCES</b>	
ADM 1	<i>DBM</i>
NATV AM MIN COORD	_____
SOLID MIN TEAM	_____
PETRO MGMT 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

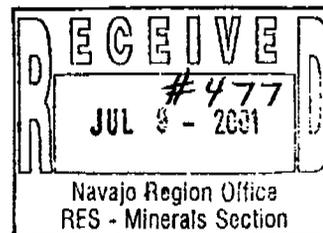
*MS 7/12/2001*  
*GA*  
*543*  
*File*

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.

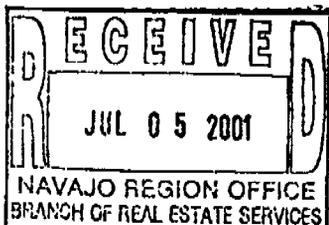
If you have any questions , please contact Alex Correa at (713) 431-1012.

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 true 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

SAL

**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.

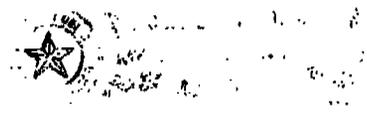
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

*D. A. Milligan*  
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



HPK 00 2002 TOL 01110 TH DEL N1010 P10 PRA NO. 1505590890 11 00

## 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 World Financial Center, 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 12<sup>th</sup> of June, 2001.**

**ExxonMobil Oil Corporation**  
By: 

**FEDERAL INSURANCE COMPANY**  
By:   
**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 the signature thereto subscribed by authority of said Notary Public is in the genuine handwriting of said Notary Public.



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

*Karen A. 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 09:06 NO.133 03/04

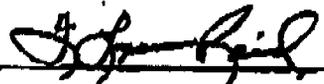
FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

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

  
\_\_\_\_\_  
F. A. Risch, President 

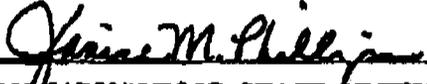
STATE OF TEXAS        )  
COUNTY OF DALLAS    )

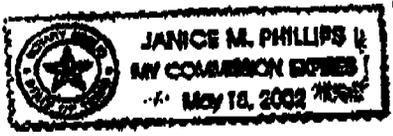
F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

  
\_\_\_\_\_  
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 605 of the Business Corporation Law

*SAC*

*100 cc*

**STATE OF NEW YORK  
DEPARTMENT OF STATE**

Filed by: EXXONMOBIL CORPORATION  
(Name)

FILED JUN 01 2001

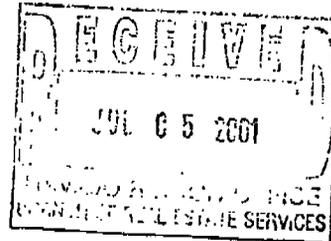
5949 Las Colinas Blvd.  
(Mailing address)

TAX \$ \_\_\_\_\_  
BY: *SAC*

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

*ny Albany*

*Cust 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**



A handwritten signature in black ink, appearing to read "J. Heub", with a long horizontal line extending to the right.

*Special Deputy Secretary of State*

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
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:		<b>6/1/2006</b>
<b>FROM:</b> (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	<b>TO:</b> ( New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600	
<b>CA No.</b>	<b>Unit:</b>	<b>MC ELMO (UIC)</b>

**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:**

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**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:

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DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>See attached list</b>
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: <b>Navajo Tribe</b>
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: <b>McElmo Creek Unit</b>
2. NAME OF OPERATOR: <b>Resolute Natural Resources Company</b> <i>N2700</i>		8. WELL NAME and NUMBER: <b>See attached list</b>
3. ADDRESS OF OPERATOR: <b>1675 Broadway, Suite 1950</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		9. API NUMBER: <b>Attached</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>See attached list</b>		10. FIELD AND POOL, OR WILDCAT: <b>Greater Aneth</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		COUNTY: <b>San Juan</b>
		STATE: <b>UTAH</b>

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"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<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	
	<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>		8. WELL NAME and NUMBER: <u>McElmo Creek</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____ STATE: <u>UTAH</u>		9. API NUMBER: <u>attached</u>
		10. FIELD AND POOL, OR WILDCAT: <u>Aneth</u>

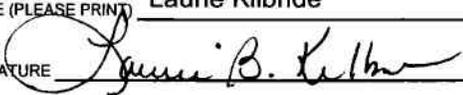
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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

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**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 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> NAVAJO C-3 (MCELMO O-16)				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input type="radio"/> REENTER P&A WELL <input type="radio"/> DEEPEN WELL <input checked="" type="radio"/>						<b>3. FIELD OR WILDCAT</b> GREATER ANETH				
<b>4. TYPE OF WELL</b> Gas Injection Well      Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> MCELMO CREEK				
<b>6. NAME OF OPERATOR</b> RESOLUTE NATURAL RESOURCES						<b>7. OPERATOR PHONE</b> 303 534-4600				
<b>8. ADDRESS OF OPERATOR</b> 1675 Boradway Ste 1950, Denver, CO, 80202						<b>9. OPERATOR E-MAIL</b> pflynn@resoluteenergy.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> 1420603372			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="radio"/> INDIAN <input checked="" type="radio"/> STATE <input type="radio"/> FEE <input type="radio"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="radio"/> INDIAN <input checked="" type="radio"/> STATE <input type="radio"/> FEE <input type="radio"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b> Navajo			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="radio"/> (Submit Commingling Application) NO <input checked="" type="radio"/>			<b>19. SLANT</b> VERTICAL <input checked="" type="radio"/> DIRECTIONAL <input type="radio"/> HORIZONTAL <input type="radio"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		610 FSL 1957 FWL		SESW	5	41.0 S	25.0 E	S		
Top of Uppermost Producing Zone		610 FSL 1957 FWL		SESW	5	41.0 S	25.0 E	S		
At Total Depth		610 FSL 1957 FWL		SESW	5	41.0 S	25.0 E	S		
<b>21. COUNTY</b> SAN JUAN			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 610			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 40				
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 660			<b>26. PROPOSED DEPTH</b> MD: 5913    TVD: 5913				
<b>27. ELEVATION - GROUND LEVEL</b> 4925			<b>28. BOND NUMBER</b> B001263			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> lease produced water				
<b>Hole, Casing, and Cement Information</b>										
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
Surf	12.25	10.75	0 - 1235	0.0	H-40 ST&C	0.0	Class B	800	0.0	0.0
Prod	7.875	7	0 - 5950	20.0	J-55 Casing/Tubing	0.0	Class B	900	0.0	0.0
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<b>NAME</b> Sherry Glass			<b>TITLE</b> Sr Regulatory Technician			<b>PHONE</b> 303 573-4886				
<b>SIGNATURE</b>			<b>DATE</b> 09/04/2012			<b>EMAIL</b> sglass@resoluteenergy.com				
<b>API NUMBER ASSIGNED</b> 43037159690000			<b>APPROVAL</b>   Permit Manager							

*Sidetrack for Desert Creek IIC Horizon*

**McElmo Creek Unit O-16**

610' FSL & 1957' FWL

Sec 5, T41S, R25E

San Juan County, Utah

API 43-037-15969

PRISM 0000345

***Discussion:** Sidetracking from the existing wellbore is expected to be the most expeditious method of getting past junk in the wellbore as well as the expected formation damage from earlier cement squeeze work in the DC-IIC target intervals. Kick and drop techniques will be used.*

Sidetrack Injection Procedure (Sundry Notice of Intent)

1. MIRU.
2. Pull & LD injection tubing & packer.
3. RIH w/work string & tag top of fish, est. 5100' or deeper.
4. RIH and set CIBP as deep as possible above fish.
5. Pressure test casing to confirm casing integrity.  
If the pressure test fails, proceed to identify the leak location in the casing and repair it by cement squeezing.
6. Run casing inspection and cement bond logs from the CIBP up to ~1000'. Confirm TOC and cement quality in the kick-off area; Identify the lower MetalSkin™ setting interval for the injection packer seat; Confirm the top of Chinle.
7. Set a whipstock on top of the CIBP, oriented to 45° azimuth.
8. Cut a 6' to 8' window in the 7" casing.
9. RIH with an adjustable mud motor and bit assembly, set at 1 ½ degrees, to begin sidetrack operations.

10. Start drilling the sidetrack. Steer the bit away from the existing wellbore approximately 20 feet, time drilling. From there, allow the drilling angle to drop toward vertical, as it will.
11. Continue drilling with bit and BHA to a depth of 5913' TVD, est. 30' below the base of the DC-IIC interval, and 2' into Chimney Rock.
12. Stimulate the open hole section of the wellbore.
13. Retrieve whipstock & mill up CIBP.
14. Install lower MetalSkin™ patch for the packer seat.
15. RIH and set injection well BHA: wireline re-entry guide, profile nipple w/plug in place, Arrowset 1-X packer, with on/off tool. This BHA to be set within the lower MetalSkin™ patch.
16. Isolate the lower wellbore and protect the packer assembly by dumping 2 sx sand on top of the packer w/plug.
17. Perforate at least 50' below the top of Chinle formation with 4 spf over a two foot interval.
18. Set CICR at least 50' above the perforated interval.
19. Sting into CICR and attempt to establish circulation to surface with fresh water, through the bradenhead.
20. If circulation is established, circulate cement to surface using 65/35 Pozmix with 100% excess, i.e. calculated volume 250 sx, 100% excess = 500 sx. Volumes will be re-calculated based on actual Chinle Top.
21. If unable to circulate cement to surface, attempt to squeeze a sufficient volume of cement to fill the casing below CICR to the perforated interval, plus 100 ft above top of Chinle using 65/35 Pozmix with 100% excess.
22. Shut in 24 hours to allow cement to cure.

23. Drill out CICR and cement; pressure test repair.
24. Install upper Metalskin™ patch over Chinle perforated interval.
25. Perform “Mock” MIT to confirm integrity.
26. RIH and circulate sand off the injection packer. Displace wellbore to packer fluid.
27. RIH with 2-7/8 inch injection tubing and on/off tool & tie onto the packer.
28. Rig up WL and retrieve plug from packer.
29. RDMOL.
30. Perform witnessed MIT.
31. Return the well to injection.

*Job Scope – Isolate existing perforations and sidetrack from the existing wellbore, to 5913' TVD to allow injection into DC-IIC. Stimulate the open hole section and reopen wellbore to original perforations. Perform Chinle isolation. Install an injection bottom hole assembly and return the well to injection in Lower Ismay and DC-I & II, along with the newly opened DC-IIC.*

**ADDITIONAL INFORMATION TO SUPPORT  
Sundry – Notice of Intent  
Mc Elmo Creek Unit O-16  
Sidetrack to the DC-IIC Horizon from the vertical wellbore for  
Addition of Injection in DC-IIC**

1. Formation Tops

**Existing Formation Tops (ft MD):**

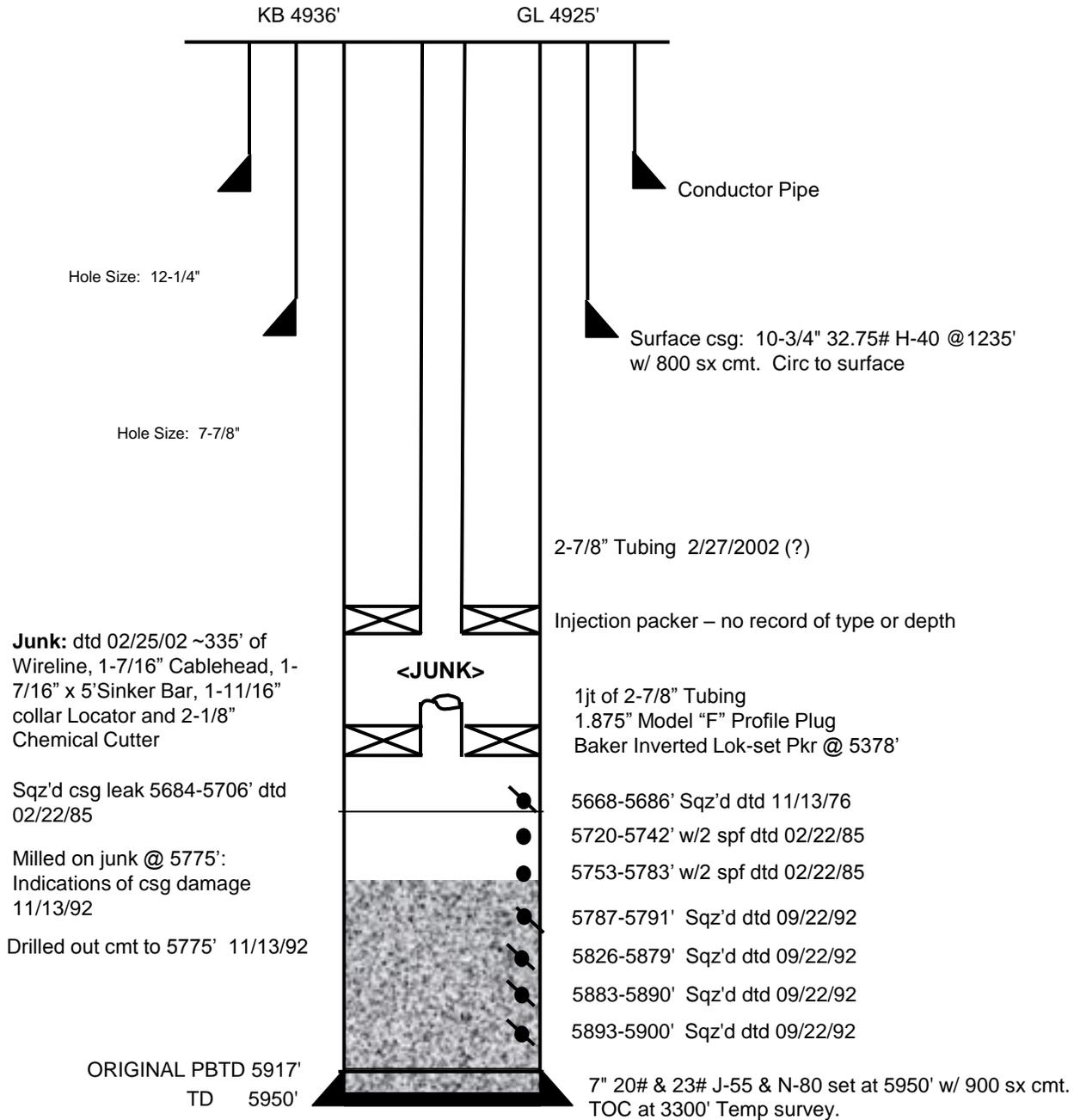
Upper Ismay:	5573
Lower Ismay:	5642
Gothic Shale:	5707
Desert Creek IA:	5720
Desert Creek IB:	5746
Desert Creek IC:	5762
Desert Creek IIA:	5778
Desert Creek IIB:	5797
Desert Creek IIC:	5821
Desert Creek III:	5883
Chimney Rock Shale:	5911

2. Re-entry will be an open hole completion, sidetracked out of cased hole and involves setting a cast iron bridge plug above current perforations, setting a whipstock, drilling to the target depth, stimulating the exposed interval, setting a packer above the sidetrack window, and initiating CO<sub>2</sub> and water injection into the open hole section and resume injection into the original DC-I & IIA perforated sections.
3. Wellbore Diagrams –
- a) Existing Wellbore Diagram – Attachment No. 1
  - b) Proposed Wellbore Diagram – Attachment No. 2
4. Drilling Mud Specifications
- a) Proposed to use N<sub>2</sub> foamed fresh water fluid, in an underbalanced situation, or if conditions warrant,
  - b) CaCl<sub>2</sub> brine water will be used, and if required,
  - c) Drilling mud with a salt polymer will be used to control formation pressure during the drilling operations.

**McELMO CREEK UNIT # O-16**  
 GREATER ANETH FIELD  
 610' FSL & 1957' FWL  
 SEC 5-T41S-R25E  
 SAN JUAN COUNTY, UTAH  
 API 43-037-15969  
 PRISM 0000345

INJECTOR

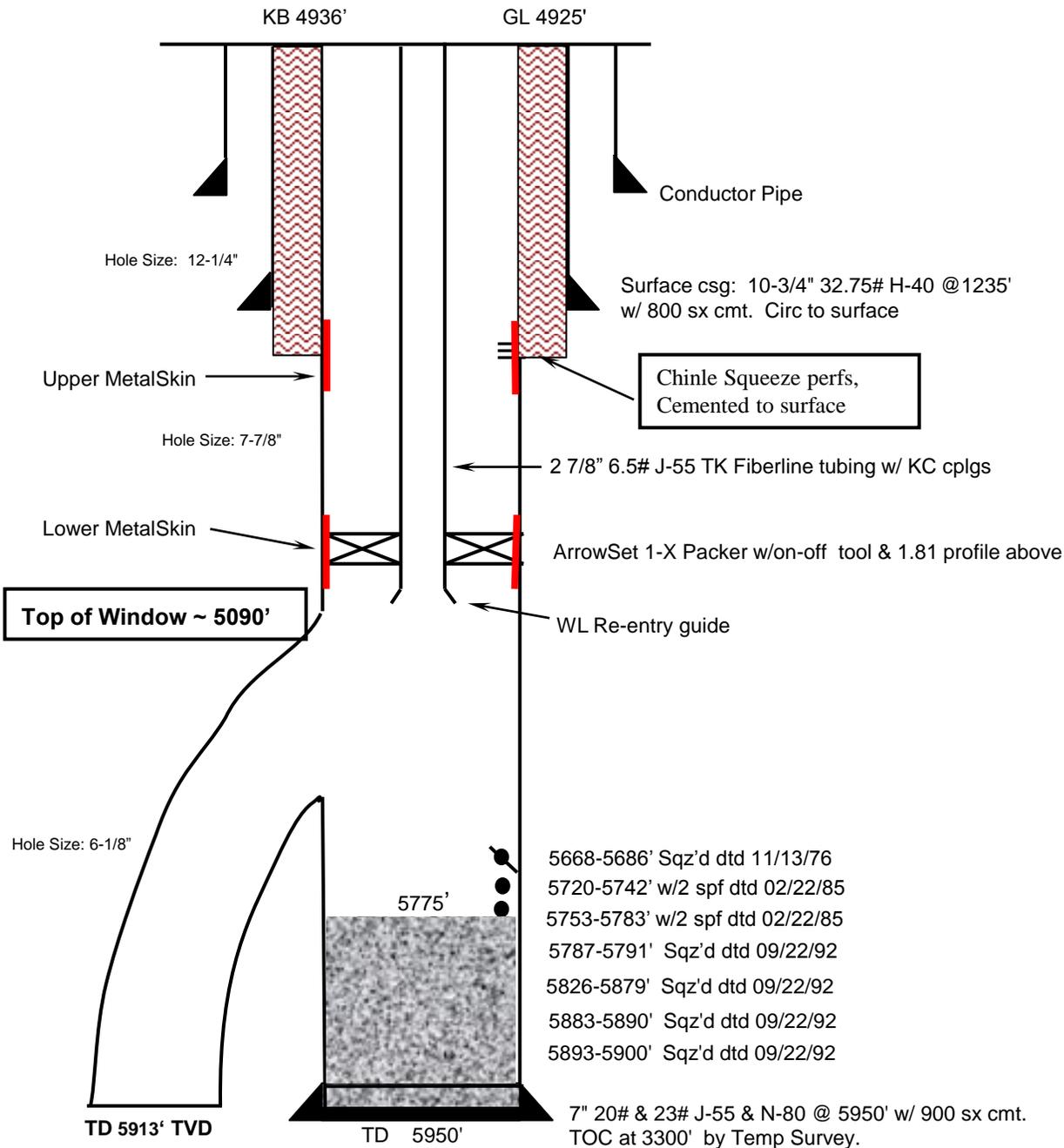
**Attachment 1:  
 Existing Wellbore**

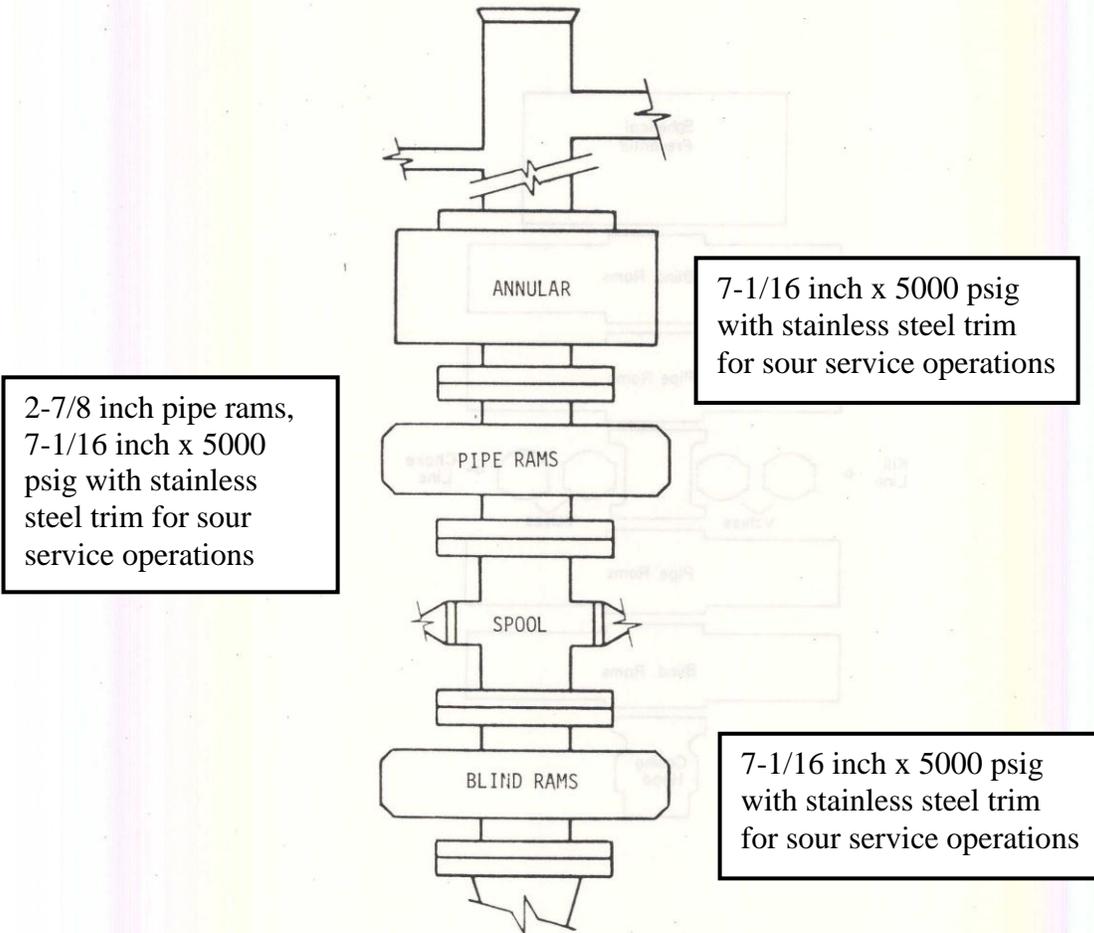


**McELMO CREEK UNIT #O-16**  
 GREATER ANETH FIELD  
 610' FSL & 1957' FWL  
 SEC 5-T41S-R25E  
 SAN JUAN COUNTY, UTAH  
 API 43-037-15969  
 PRISM 0000345

INJECTOR

**Attachment 2:  
 Proposed Wellbore  
 Deepened to DCIIC,  
 Open Hole Completion**

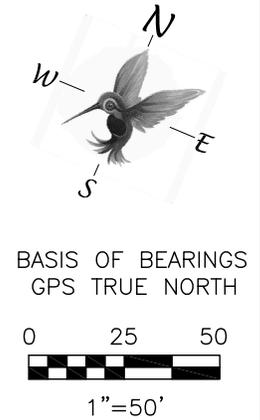
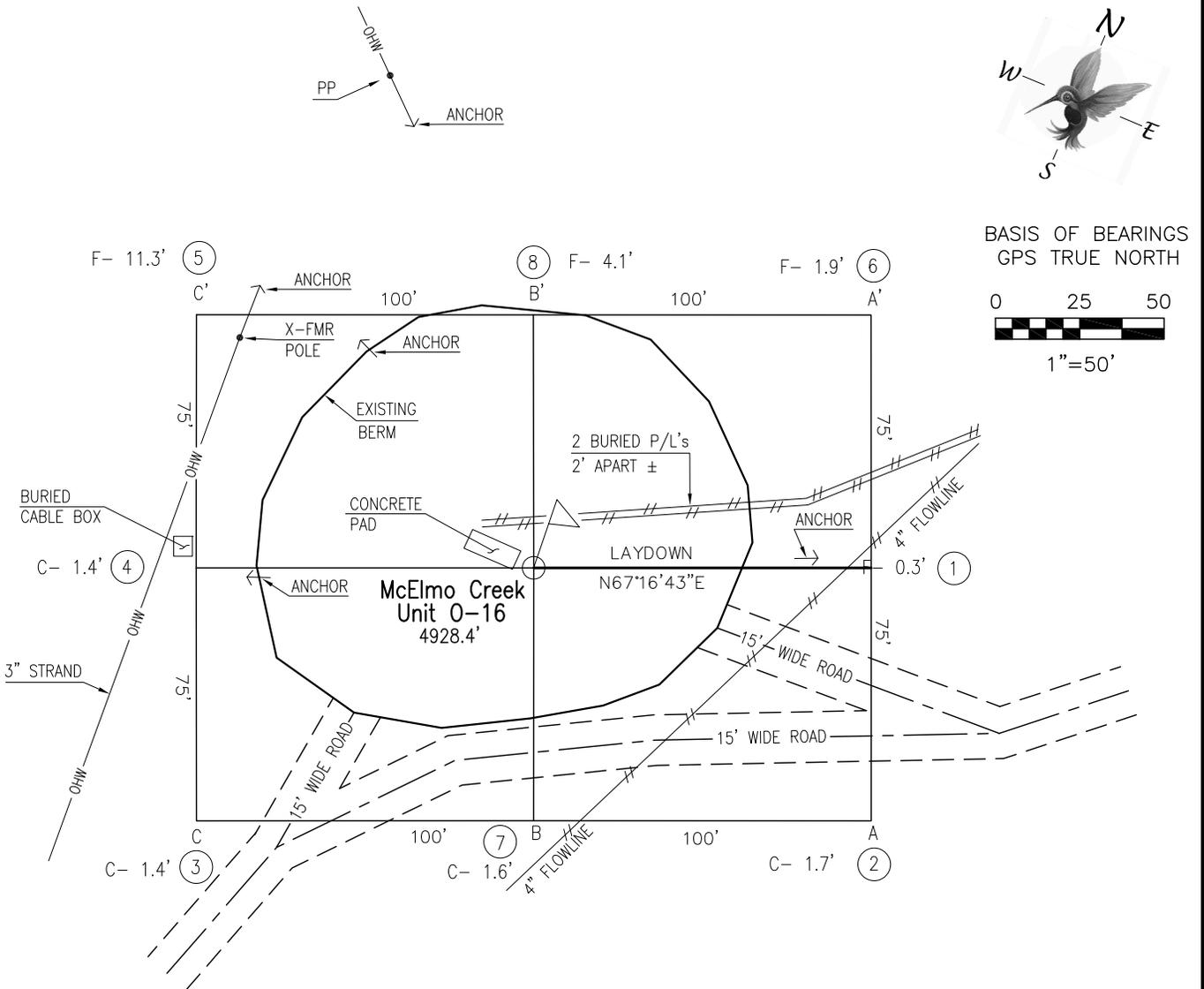




TYPICAL WORKOVER BOP STACK

Figure 30

# Well Pad - McElmo Creek Unit O-16



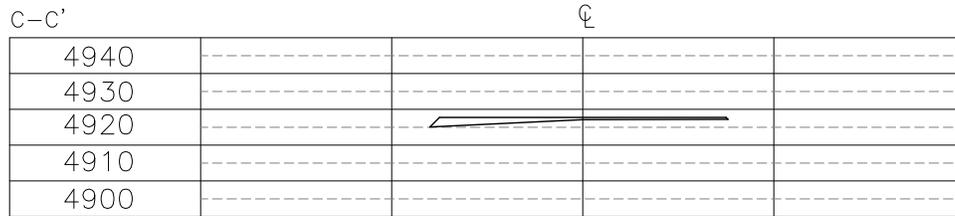
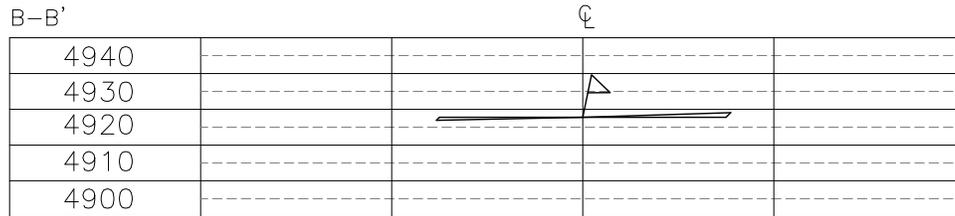
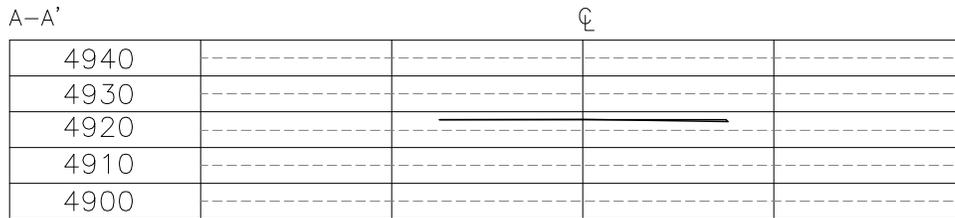
It shall be the responsibility of the Contractor to verify the location, depth and condition of all existing utilities and conduct all necessary field investigations prior to any excavation.  
OneCall 800-662-5348

EXHIBIT B

FOOTAGE: 610' FSL 1957' FWL		<b>RESOLUTE</b> NATURAL RESOURCES	
SEC 5, T41S, R25E, SLM, SAN JUAN COUNTY, UT			
LAT: N 37.24573° LON: W 109.19957°		SURVEYED: 08/29/12	
ELEVATION: 4928.4' at top of bottom flange (NAVD88)		DRAWN BY: GEL	DATE: 09/02/12
NOTE: Re-entry of existing well.		REVISION:	

HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108

# Cross Section - McElmo Creek Unit O-16



HORIZONTAL 1"=100'  
VERTICAL 1"=100'

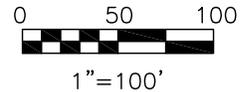
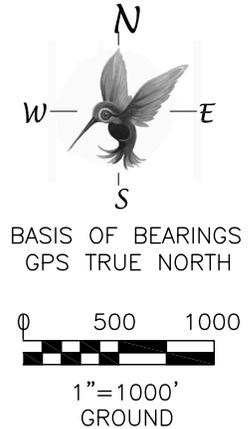
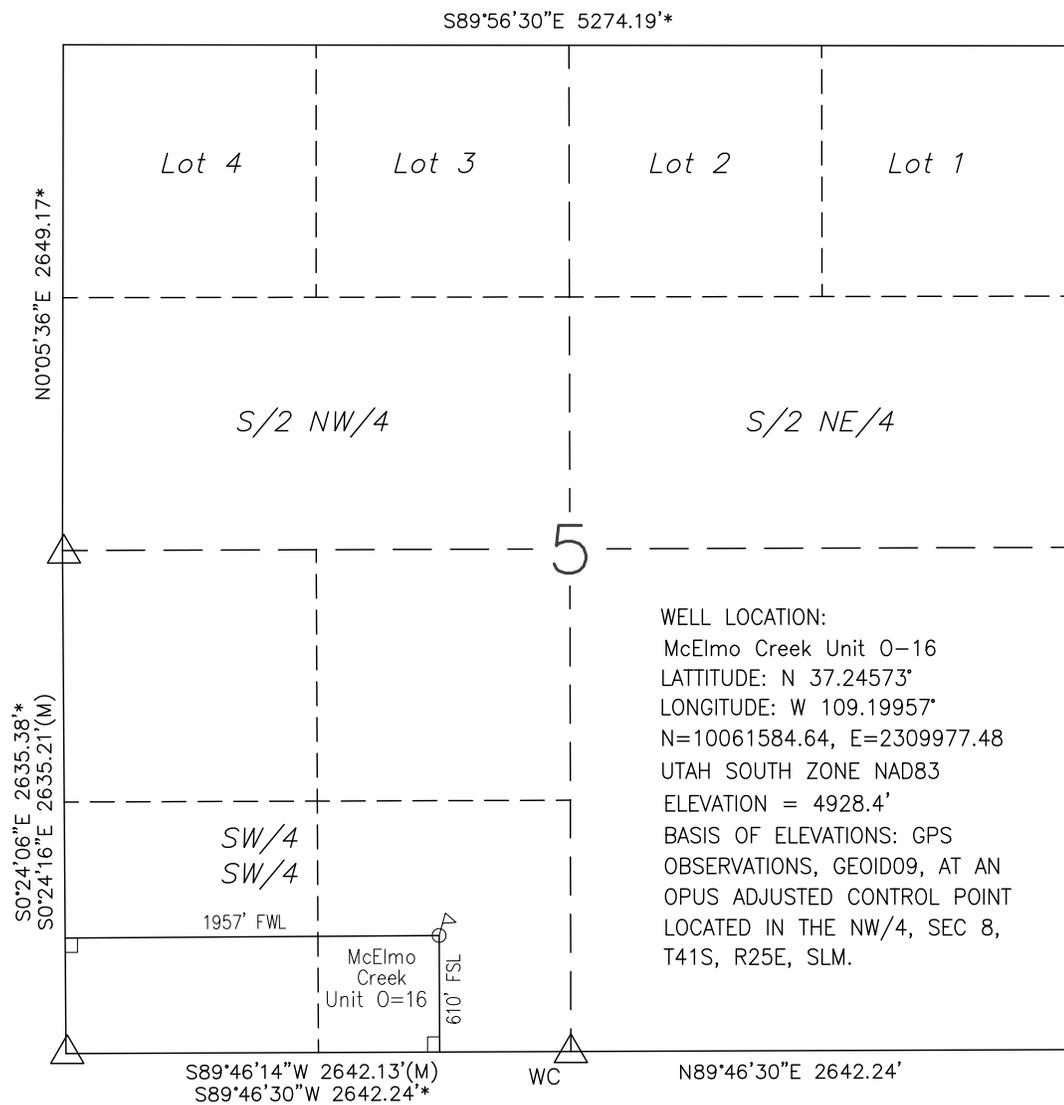


EXHIBIT C

FOOTAGE: 610' FSL 1957' FWL		<h2>RESOLUTE</h2> <p>NATURAL RESOURCES</p>		
SEC 5, T41S, R25E, SLM, SAN JUAN COUNTY, UT				
LAT: N 37.24573° LON: W 109.19957°		SURVEYED: 08/29/12		
ELEVATION: 4928.4' at top of bottom flange (NAVD88)		DRAWN BY: GEL	DATE: 09/03/12	FILE:
NOTE: Re-entry of existing well.		REVISION:		

HUMMINGBIRD SURVEYING, LLC --- P.P. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108

# Well Location - McElmo Creek Unit O-16



WELL LOCATION:  
 McElmo Creek Unit O-16  
 LATITUDE: N 37.24573°  
 LONGITUDE: W 109.19957°  
 N=10061584.64, E=2309977.48  
 UTAH SOUTH ZONE NAD83  
 ELEVATION = 4928.4'  
 BASIS OF ELEVATIONS: GPS  
 OBSERVATIONS, GEOID09, AT AN  
 OPUS ADJUSTED CONTROL POINT  
 LOCATED IN THE NW/4, SEC 8,  
 T41S, R25E, SLM.

**LEGEND:**

- △ FND USBLM 3-1/4" BC DATED 2004
- ⊥ 90° TIE
- (M) MEASURED
- \* RECORD
- △ WELL LOCATION

I, Gerald G. Huddleston, do hereby certify that I am a registered Utah land surveyor holding certificate number 161297 as prescribed under the laws of the State of Utah, and I further certify that under authority of the owner I have surveyed the well location as shown hereon and that the same is correct and true to the best of my knowledge and belief.

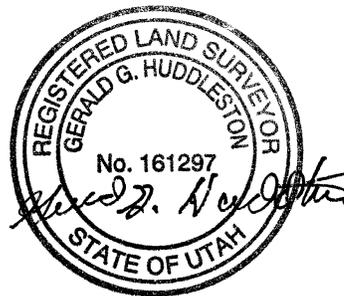


EXHIBIT A

FOOTAGE: 610' FSL 1957' FWL	<b>RESOLUTE</b> NATURAL RESOURCES		
SEC 5, T41S, R25E, SLM, SAN JUAN COUNTY, UT			
LAT: N 37.24573° LON: W 109.19957° (NAD83)	SURVEYED: 08/29/12		
ELEVATION: 4928.4' at top of buttom flange (NAVD88)	DRAWN BY: GEL	DATE: 08/30/12	
NOTE: Re-entry of existing well.	REVISION:		

HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108

37.24569° N, 109.19944° W WGS84TOPO! map printed on 08/30/12 from "TOPO MAP MCU O-16.tpo"

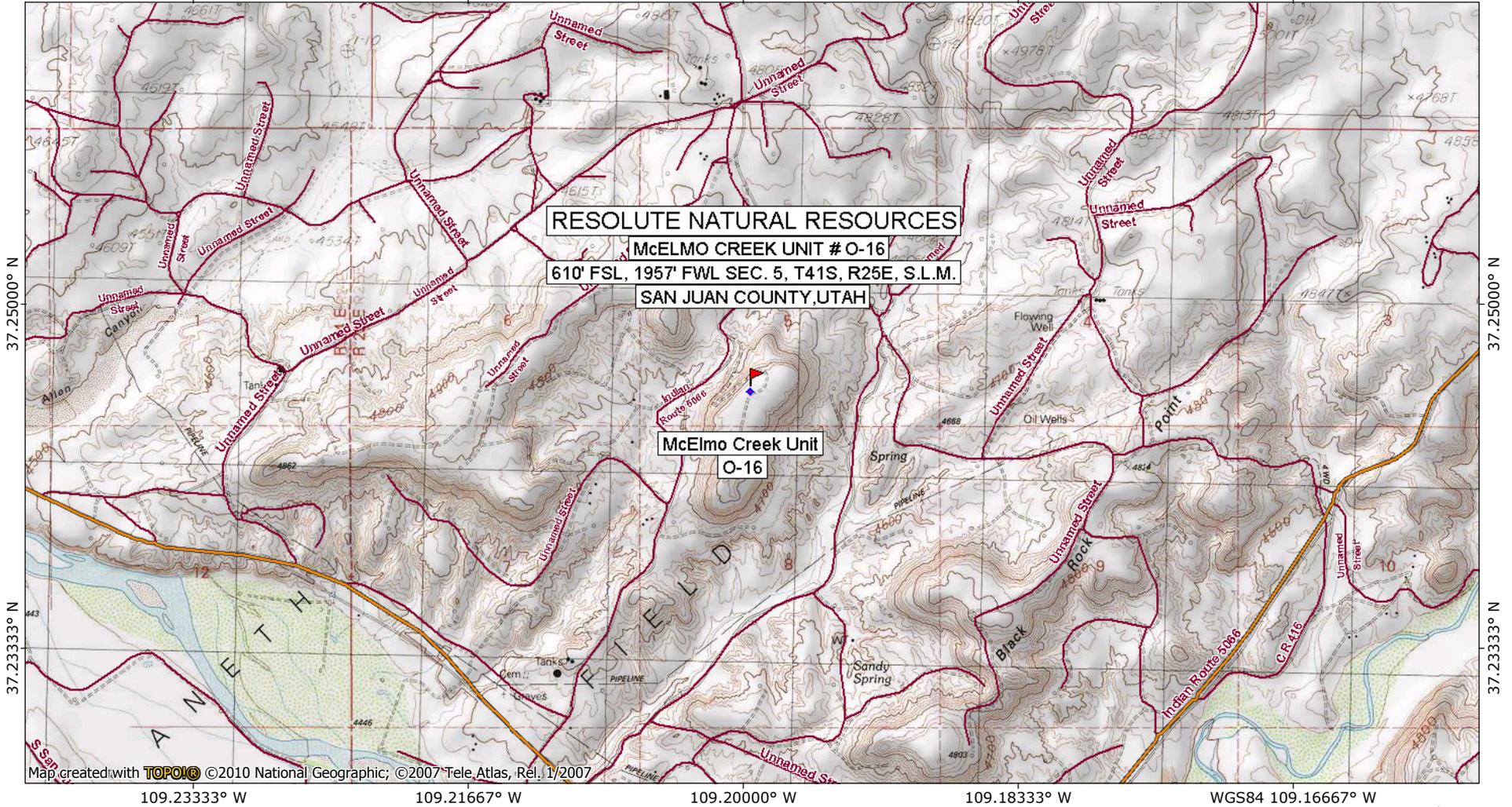
109.23333° W

109.21667° W

109.20000° W

109.18333° W

WGS84 109.16667° W



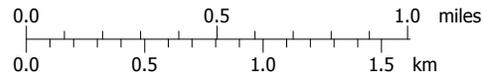
109.23333° W

109.21667° W

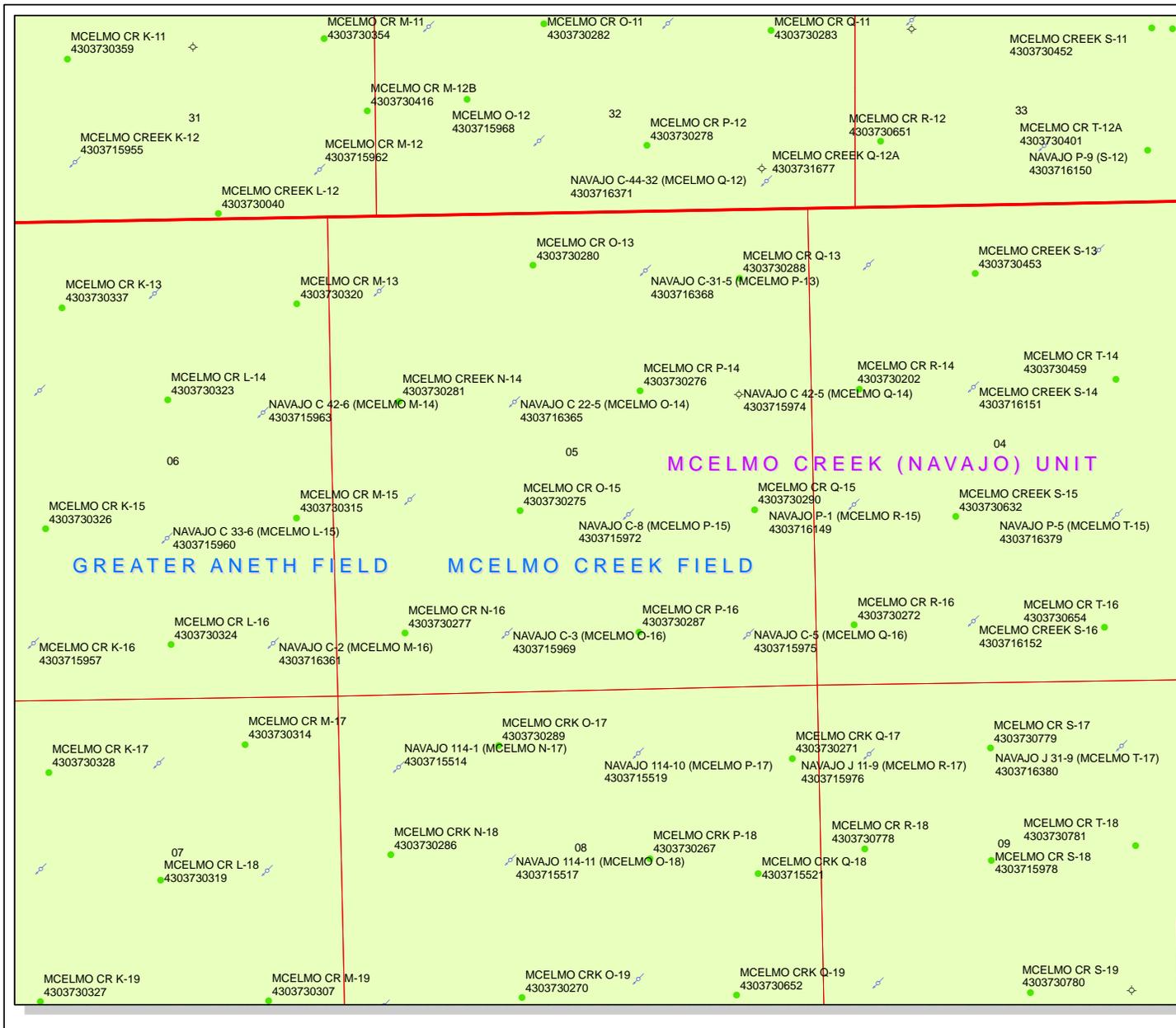
109.20000° W

109.18333° W

WGS84 109.16667° W



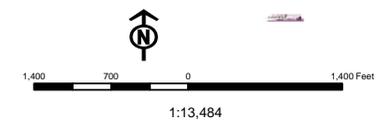
TN ↑ MN  
10 1/2°  
08/30/12



**API Number: 4303715969**  
**Well Name: NAVAJO C-3 (MCELMO O-16)**  
**Township T41.0S Range R25.0E Section 05**  
**Meridian: SLBM**  
**Operator: RESOLUTE NATURAL RESOURCES**

Map Prepared:  
 Map Produced by Diana Mason

- |                      |                                    |
|----------------------|------------------------------------|
| <b>Units STATUS</b>  | <b>Wells Query Status</b>          |
| ACTIVE               | APD - Approved Permit              |
| EXPLORATORY          | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE          | GIW - Gas Injection                |
| NF PP OIL            | GS - Gas Storage                   |
| NF SECONDARY         | LOC - New Location                 |
| P1 OIL               | OPS - Operation Suspended          |
| PP GAS               | PA - Plugged Abandoned             |
| PP GEOTHERM          | PGW - Producing Gas Well           |
| PP OIL               | POW - Producing Oil Well           |
| SECONDARY            | SGW - Shut-in Gas Well             |
| TERMINATED           | SOW - Shut-in Oil Well             |
| <b>Fields STATUS</b> | TA - Temp. Abandoned               |
| Unknown              | TW - Test Well                     |
| ABANDONED            | WDW - Water Disposal               |
| ACTIVE               | WW - Water Injection Well          |
| COMBINED             | WSW - Water Supply Well            |
| INACTIVE             | Bottom Hole Location - OIG&D       |
| STORAGE              |                                    |
| TERMINATED           |                                    |



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/4/2012

API NO. ASSIGNED: 43037159690000

WELL NAME: NAVAJO C-3 (MCELMO O-16)

OPERATOR: RESOLUTE NATURAL RESOURCES (N2700)

PHONE NUMBER: 303 573-4886

CONTACT: Sherry Glass

PROPOSED LOCATION: SESW 05 410S 250E

Permit Tech Review: 

SURFACE: 0610 FSL 1957 FWL

Engineering Review: 

BOTTOM: 0610 FSL 1957 FWL

Geology Review: 

COUNTY: SAN JUAN

LATITUDE: 37.24586

LONGITUDE: -109.19983

UTM SURF EASTINGS: 659662.00

NORTHINGS: 4123665.00

FIELD NAME: GREATER ANETH

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420603372

PROPOSED PRODUCING FORMATION(S): DESERT CREEK

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: INDIAN - B001263
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: lease produced water
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit: MCELMO CREEK
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 152-09
- Effective Date: 8/27/2003
- Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed  
610901 UNIT EFF:661113 COMM WIW:860424 FR N0920:950803 FR MEPNA:020417 FR N7370 6/01:OP FR N1855:

Stipulations: 4 - Federal Approval - dmason



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*

## Permit To Drill

\*\*\*\*\*

**Well Name:** NAVAJO C-3 (MCELMO O-16)  
**API Well Number:** 43037159690000  
**Lease Number:** 1420603372  
**Surface Owner:** INDIAN  
**Approval Date:** 10/1/2012

### Issued to:

RESOLUTE NATURAL RESOURCES, 1675 Boradway Ste 1950, Denver, CO 80202

### Authority:

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.

### Duration:

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

### 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.

### Conditions of Approval:

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

### 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 leave 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>

**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 to:

- 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

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420603372
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> MCELMO CREEK
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES		<b>8. WELL NAME and NUMBER:</b> NAVAJO C-3 (MCELMO O-16)
<b>3. ADDRESS OF OPERATOR:</b> 1675 Boradway Ste 1950 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43037159690000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
		<b>COUNTY:</b> SAN JUAN
		<b>STATE:</b> 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 type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/5/2012	<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
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Resolute has begun drilling out this well to deepen into the Chimney Rock shale, per APD. Daily drilling report is attached.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
October 05, 2012**

<b>NAME (PLEASE PRINT)</b> Shery Glass	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr Regulatory Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/5/2012	



## Daily Job Report

## Well Name: Mcelmo Cr O16

API Number 43037159690000	Section	Township	Range	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Job Category Completion/Workover	Primary Job Type Recompletion	Secondary Job Type	Working Interest (%) 71.25
Start Date 9/30/2012	End Date	AFE Number 10012763	Total AFE Amount 750,398.00

Report Number	Start Date	End Date	Day Total	Summary
1	8/28/2012	8/28/2012	524.09	Move frac tank from L-13 to location, location sandy got stuck, use load to pull truck out
2	8/29/2012	8/29/2012	2,290.08	Bleed down injection to cap off injection lateral at MCU O-17
3	8/30/2012	8/30/2012	3,802.84	Cut CO2 injection line below grade and install valve, cut rusted bolts to dismantal H2O, CO2 injection skid, prep location for DCIIC 24 hour Rig and MCU well O-16
4	9/11/2012	9/1/2012	2,686.06	Load & haul dirt, blade loc
5	9/12/2012	8/31/2012	620.88	Blade off loc. level & blade road
6	9/29/2012	9/29/2012	1,100.00	Lansing spot in frac tank, Jr Contraction R/U flow line from Wellhead to frac tank, SITP 1500psi SICP 0psi, Open well to frac tank flow back well to bleed off psi, PSI dropped down to 1300psi, Well flowing mostly gas and little fluid @ 1300psi for first 30 min then mostly fluid, 3 hours flow back, Returned 340 bbls fluid, SIW TBG @ 1300psi, Hauled off 160 bbls to area 1, Open tbg to frac tank @ 1300psi, flow back 90 bbls of fluid, PSI dropped down to 1000psi, SIW Area 1 tanks full, TBG 1000psi, Released flow back crew.
7	9/30/2012	10/1/2012	37,116.55	Report for MCU O-16 Capital Injector Key Rig 27, Loc is clean & dry No Chemical, Injection line removed Anchor test 9 of 2012 Fuses pulled @ transformer 5 K well head 1300psi on TBG, 0 on csg, 0 braiding head Dawn Trucking move equipment onto loc. LJB level ground for rig ramp, Spot in ramp, Pit, Gas Buster, Rig Pump, Spot in DP Trailers on loc, Winch Unit onto ramp, Spot in light plant, Upright tank, Fuel skid, Solids Bin, Transfer tank, Open top frac tank. Set out Safety Equipment, LOTO all power sources, Start rigging up Unit, walkways, steps, hand rails, Raise derrick, secure guide lines, R/U pump, electrical lines, hoses, R/U 3" hard lines from choke manifold to lay down tanks, R/U hard lines from upper tree to choke. SITP 1300psi, Open tbg to frac tank flow back well, PSI dropped down to 100psi flowing, Return Co2 for 10 min then fluid, Crew change @ 1800 Safety Meeting fill out JSA (Rigging up, Pumping operations). Flow well back for 2 hours, PSI dropped down to 50psi flowing fluid. 10# Brine on loc, SIW TBG PSI up to 1000psi quickly, Pump 40 bbls 10#, SIW well for 1 hr, PSI @ 900psi, Call for kill mud. Wait 1.5 hr on mud. 14# mud on loc, Pump 40 bbls mud down tbg, TBG dead. Remove bolts & upper tree. R/U 2 pub jts w/ TIW to tbg hanger, Strip on BOP, Secure bolts, R/U Accumulator lines, Check for proper operation. R/U floor, steps, handrails, tbg tongs, tools, Racking board skid & blocks, catwalk w/ V door slide. Crew change @ 0600 Safety Meeting fill out JSA (PSI test BOP, Job hazards)
8	10/1/2012	10/2/2012	48,329.99	This is the report on the MCU O-16 Capital Injector Key rig #27 Work on lock down pins. Pull -up and release off packer. Pressure went up to 400 psi. Latch back on. Went down to office to look at files with Wilson. This well has 2 7/8 cement lined tubing with a Baker inverted lock set packer with shot off valve. Shut in well and pull-up and J-off of packer., Open well and bleed off pressure through choke. to work tanks. Pressure at 450 psi dropping down to 0 psi. Layed down 4 jts and make up packer and test BOP stack 200 low and 1000 high. Start laying down tubing and transfer to trailer. Lay down 180 jts with on and off tool with the total depth of 5632.65. transfer tubing to trailer Crew Change at 1800 tail gate safety meeting with all contractors on location topic was fork operation, communication, job task, Transfer AOH to pipe rack tally and make up plug and set at 360 ft Wait on vac truck. Pump 20bbls till well cleaned up. Pressure test plug to 500 psi. (Good Test). Stand back 6 stands. Rig down rig floor and nipple down BOP stack. and set back. Hold safety meeting with 11 personal on location topic was fire watch, fire extinguisher, grinding, Had ABC monitors all reading around well head 0 on all readings. Had welder cut off all bolts and remove B section. Had 4 1/2 inch on stick up enough to install new 3000# well head. Test void to 2000 psi for 30 mins (Good Test). Nipple up BOP stack and have to relined gas buster. Rig up rig floor. .Crew change at 6:00 Tail gate safety meeting with all contractors on location topic was hand placement, picking-up AOH Drill pipe, teamwork, forklift operations. Cont to rig back up .



## Daily Job Report

## Well Name: Mcelmo Cr O16

API Number 43037159690000	Section	Township	Range	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Day Total	Summary
9	10/2/2012	10/3/2012	39,599.01	This report is on the MCU O-16 Capital Injector Key rig #27 Unbolt tee above Hydril to realined spool to gas buster. Finish rigging up equipment to BOP stack. Make up retrieving tool and TIH with 6 stands. Latch on and pressure test BOP stack 200 low and 1000 high. Release pressure also release plug. TOH and load up tools. Make up BHA with retrieving tool 4 ft perf sub, Xover to AOH Run 6 stands out of derrick and start picking up Drill pipe. Had to rearrange pipe trailer for forklift to maneuver around. Finish picking up and tally 178 jts to the depth of 5632. Trucks on location with 14# mud. Rig up to circulate well around with 240 bbls Crew change at 1800 hours tail gate safety meeting with rig crew topic discuss was job task, hand placement, and well control, stay off floor when working Drill pipe. Finish circulating well around. Pick-up jt 179 with TIW valve. latch on to Baker inverted lock-set packer string weight at 46K set down 2 points and rotate weight would come off repeat the process 2 more times with out any success. Pull up and work drill pipe and repeat the process again. J-off packer and rig up power swivel on jt 179. Rotate and work packer to release. Made several phone calls to different fishing companys everyone out on jobs. Call Wilson and Donnie and discuss the situation Continue to work packer down ward, made about a foot till it quit moving. Decided to J- off packer and TOH with BHA. Crew change at 6:00 Tail gate safety meeting with all contractors on location topic was communication, tripping DP, hand placement. Continue to trip out with BHA
10	10/3/2012	10/4/2012	38,173.53	This is the report on MCU O-16 Capital Injector Key rig #27 After crew change pulled 4 stands and tubing side started to flow. Pump 15 bbls of 13.8# mud down Drill pipe. Open well still flowing. shut in well and monitor pressures for 1 hour. All reading were 0 psi knock off hoses and take out TIW valve slight flow on tubing side. TOH with On and Off Tool.. Make-up BHA with 5 1/2 scraper and run to the depth of 5632. Lay down 10 jts of AOH Drill pipe TOH with scraper. Move equipment around to make room for BlueJet wireline. Spot in wireline truck. hold safety meeting with 11 personel on location topic disuss was wireline operations, suspended loads, pick up MTT/ 40 arm caliper casing inspection tool. Run from 5620 to 2000 ft. Send logs to Jim Styler and decide to set RBP at 5565. Come out and pressure test plug to 500 psi (Good Test). Pick-up tool to run cement bond log. Rig down wireline. Transfer 20 jts of spiral heavy weight to pipe racks and tally. Make up BHA with (7' Anchor,) ( Xcluder sub) ( 7' pathmaster whipstock,) (6 1/4 window mill that was check for gauge) (6 1/4 flex mill) (1 jt of 3 1/2 DP) (2 7/8 AOH x 3 1/2 IF x over) (2 7/8 AOH UBHO sub) (2 7/8 H-90 x 2 7/8 AOH x over) and 20 jts of heavy weight spiral Drill pipe, (2 7/8 AOH x 2 7/8 H-90 x ove) r and 156 jts to the depth of 5557. Rig up wireline and have gyro data recalbrate tool. Crew change at 6:00 tail gate safety meeting with all contractors on location topic was high pressure lines, wireline operations, staying out floor when pull on tool jts. Continue to calbrate tools
11	10/4/2012	10/5/2012	97,935.02	Report for MCU O-16 Capital Injector Key Rig 27, RIH w/ gyro tool, Orientate whipstock, Set whipstock sheared anchor 10K @ 5564', 44.94 Azim, Sheared bolt @ 28K, Top of Whipstock @5550.30', Bottom of Whipstock @ 5558.05', ROH w/ gyro tool, L/D gyro tool, R/D wireline. L/D 12 jts DP. TIH 12 jts DP from derrick. P/U power swivel, w/ jt 156. Break circ, Rotating rubber leaking, Change out Rotating rubber, Start Milling out window @ 5550', 2.5 - 3 bbls min, 650 psi, Mud wgt 13.1 Vis 35 Ph 9, Crew change @ 1800 hrs fill out JSA (Rotating equipment, PSI on lines) Milled 3' rat hole, Mill quit making hole @ 5560.56', Reamend bottom & top of window until there was no drag, Circ hole clean. L/D 1 jt w/ swivel. Hang swivel back in derrick. TOH 155 jts DP, 20 jts HWDP. L/D Mills. Use forklift to move Mud Motor, Monel Collars off trailer to pipe racks, Gather lifting subs, Tally BHA. Crew Change @ 0600 hrs Safety Meeting fill out JSA (M/U BHA, Manuel tong ops, Strike zones)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420603372
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO
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.		<b>7. UNIT or CA AGREEMENT NAME:</b> MCELMO CREEK
<b>1. TYPE OF WELL</b> Water Injection Well		<b>8. WELL NAME and NUMBER:</b> NAVAJO C-3 (MCELMO O-16)
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES		<b>9. API NUMBER:</b> 43037159690000
<b>3. ADDRESS OF OPERATOR:</b> 1675 Boradway Ste 1950 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 534-4600 Ext	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S		<b>COUNTY:</b> SAN JUAN
		<b>STATE:</b> 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 type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/25/2012	<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"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Resolute is currently deepening this well and will submit a completion report when production resumes. Drilling report is attached.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
October 30, 2012**

<b>NAME (PLEASE PRINT)</b> Shery Glass	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr Regulatory Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/26/2012	



## Daily Well Report

## Well Name: Mcelmo Cr O16

API Number 43037159690000	Section	Township	Range	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Job Category Completion/Workover	Primary Job Type Recompletion	Secondary Job Type	Working Interest (%) 71.25
Start Date 9/30/2012	End Date	AFE Number 10012763	

Objective  
Job scope: Retrieve existing tubing and packer, sidetrack out of the existing 7" casing at ~5100' and drill to a projected depth of 5913' TVD (~2' into Chimney Rock shale) using nitrogen as required; stimulate the open hole IIC section, run new 2-7/8" TK Fiberline tubing with KC couplings and new injection packer. Since this well is on the Horsley-Witten list, Chinle isolation is planned, with MetalSkin™ patches included to ensure integrity of the shallow squeeze perforations.

Contractor Key	Rig Number #27	Rig Type	Rig Start Date 9/30/2012	Rig Release Date
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Report Number	Start Date	End Date	Summary
1	8/28/2012	8/28/2012	Move frac tank from L-13 to location, location sandy got stuck, use load to pull truck out
2	8/29/2012	8/29/2012	Bleed down injection to cap off injection lateral at MCU O-17
3	8/30/2012	8/30/2012	Cut CO2 injection line below grade and install valve, cut rusted bolts to dismantal H2O, CO2 injection skid, prep location for DCIIC 24 hour Rig and MCU well O-16
4	9/1/2012	9/1/2012	Load & haul dirt, blade loc
5	9/12/2012	8/31/2012	Blade off loc. level & blade road
6	9/29/2012	9/29/2012	Lansing spot in frac tank, Jr Contraction R/U flow line from Wellhead to frac tank, SITP 1500psi SICP 0psi, Open well to frac tank flow back well to bleed off psi, PSI dropped down to 1300psi, Well flowing mostly gas and little fluid @ 1300psi for first 30 min then mostly fluid, 3 hours flow back, Returned 340 bbls fluid, SIW TBG @ 1300psi, Hauled off 160 bbls to area 1, Open tbg to frac tank @ 1300psi, flow back 90 bbls of fluid, PSI dropped down to 1000psi, SIW Area 1 tanks full, TBG 1000psi, Released flow back crew.
7	9/30/2012	10/1/2012	Report for MCU O-16 Capital Injector Key Rig 27, Loc is clean & dry No Chemical, Injection line removed Anchor test 9 of 2012 Fuses pulled @ transformer 5 K well head 1300psi on TBG, 0 on csg, 0 braiding head Dawn Trucking move equipment onto loc. LJB level ground for rig ramp, Spot in ramp, Pit, Gas Buster, Rig Pump, Spot in DP Trailers on loc, Winch Unit onto ramp, Spot in light plant, Upright tank, Fuel skid, Solids Bin, Transfer tank, Open top frac tank. Set out Safety Equipment, LOTO all power sources, Start rigging up Unit, walkways, steps, hand rails, Raise derrick, secure guide lines, R/U pump, electrical lines, hoses, R/U 3" hard lines from choke manifold to lay down tanks, R/U hard lines from upper tree to choke. SITP 1300psi, Open tbg to frac tank flow back well, PSI dropped down to 100psi flowing, Return Co2 for 10 min then fluid, Crew change @ 1800 Safety Meeting fill out JSA (Rigging up, Pumping operations). Flow well back for 2 hours, PSI dropped down to 50psi flowing fluid. 10# Brine on loc, SIW TBG PSI up to 1000psi quickly, Pump 40 bbls 10#, SIW well for 1 hr, PSI @ 900psi, Call for kill mud. Wait 1.5 hr on mud. 14# mud on loc, Pump 40 bbls mud down tbg, TBG dead. Remove bolts & upper tree. R/U 2 pub jts w/ TIW to tbg hanger, Strip on BOP, Secure bolts, R/U Accumulator lines, Check for proper operation. R/U floor, steps, handrails, tbg tongs, tools, Racking board skid & blocks, catwalk w/ V door slide. Crew change @ 0600 Safety Meeting fill out JSA (PSI test BOP, Job hazards)
8	10/1/2012	10/2/2012	This is the report on the MCU O-16 Capital Injector Key rig #27 Work on lock down pins. Pull -up and release off packer. Pressure went up to 400 psi. Latch back on. Went down to office to look at files with Wilson. This well has 2 7/8 cement lined tubing with a Baker inverted lock set packer with shot off valve. Shut in well and pull-up and J-off of packer. Open well and bleed off pressure through choke to work tanks. Pressure at 450 psi dropping down to 0 psi. Layed down 4 jts and make up packer and test BOP stack 200 low and 1000 high. Start laying down tubing and transfer to trailer. Lay down 180 jts with on and off tool with the total depth of 5632.65. transfer tubing to trailer Crew Change at 1800 tail gate safety meeting with all contractors on location topic was fork operation, communication, job task, Transfer AOH to pipe rack tally and make up plug and set at 360 ft Wait on vac truck. Pump 20bbls till well cleaned up. Pressure test plug to 500 psi. (Good Test). Stand back 6 stands. Rig down rig floor and nipple down BOP stack and set back. Hold safety meeting with 11 personal on location topic was fire watch, fire extinguisher, grinding, Had ABC monitors all reading around well head 0 on all readings. Had welder cut off all bolts and remove B section. Had 4 1/2 inch on stick up enough to install new 3000# well head. Test void to 2000 psi for 30 mins (Good Test). Nipple up BOP stack and have to relined gas buster. Rig up rig floor. Crew change at 6:00 Tail gate safety meeting with all contractors on location topic was hand placement, picking-up AOH Drill pipe, teamwork, forklift operations. Cont to rig back up.



## Daily Well Report

## Well Name: Mcelmo Cr O16

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10	10/3/2012	10/4/2012	This is the report on MCU O-16 Capital Injector Key rig #27 After crew change pulled 4 stands and tubing side started to flow. Pump 15 bbls of 13.8# mud down Drill pipe. Open well still flowing. shut in well and monitor pressures for 1 hour. All reading were 0 psi knock off hoses and take out TIW valve slight flow on tubing side. TOH with On and Off Tool.. Make-up BHA with 5 1/2 scraper and run to the depth of 5632. Lay down 10 jts of AOH Drill pipe TOH with scraper. Move equipment around to make room for BlueJet wireline. Spot in wireline truck. hold safety meeting with 11 personel on location topic disuss was wireline operations, suspended loads, pick up MTT/ 40 arm caliper casing inspection tool. Run from 5620 to 2000 ft. Send logs to Jim Styler and decide to set RBP at 5565. Come out and pressure test plug to 500 psi (Good Test). Pick-up tool to run cement bond log. Rig down wireline. Transfer 20 jts of spiral heavy weight to pipe racks and tally. Make up BHA with (7' Anchor,) (Xcluder sub) (7' pathmaster whipstock,) (6 1/4 window mill that was check for gauge) (6 1/4 flex mill) (1 jt of 3 1/2 DP) (2 7/8 AOH x 3 1/2 IF x over) (2 7/8 AOH UBHO sub) (2 7/8 H-90 x 2 7/8 AOH x over) and 20 jts of heavy weight spiral Drill pipe, (2 7/8 AOH x 2 7/8 H-90 x ove) r and 156 jts to the depth of 5557. Rig up wireline and have gyro data recalbrate tool. Crew change at 6:00 tail gate safety meeting with all contractors on location topic was high pressure lines, wireline operations, staying out floor when pull on tool jts. Continue to calbrate tools
11	10/4/2012	10/5/2012	Report for MCU O-16 Capital Injector Key Rig 27, RIH w/ gyro tool, Orientate whipstock, Set whipstock sheared anchor 10K @ 5564', 44.94 Azim, Sheared bolt @ 28K, Top of Whipstock @5550.30', Bottom of Whipstock @ 5558.05', ROH w/ gyro tool, L/D gyro tool, R/D wireline. L/D 12 jts DP. TIH 12 jts DP from derrick. P/U power swivel, w/ jt 156. Break circ, Rotating rubber leaking, Change out Rotating rubber, Start Milling out window @ 5550', 2.5 - 3 bbls min, 650 psi, Mud wgt 13.1 Vis 35 Ph 9, Crew change @ 1800 hrs fill out JSA (Rotating equipment, PSI on lines) Milled 3' rat hole, Mill quit making hole @ 5560.56', Reamend bottom & top of window until there was no drag, Circ hole clean. L/D 1 jt w/ swivel. Hang swivel back in derrick. TOH 155 jts DP, 20 jts HWDP. L/D Mills. Use forklift to move Mud Motor, Monel Collars off trailer to pipe racks, Gather lifting subs, Tally BHA. Crew Change @ 0600 hrs Safety Meeting fill out JSA (M/U BHA, Manuel tong ops, Strike zones)
12	10/5/2012	10/6/2012	Report for MCU O-16 Capital Injector Key Rig 27, R/U Manuel tongs, Torque gauge, P/U 6 1/4 button bit, Mud Motor, Change degree on motor. Wait on slip bowl, slips, collar clamp for 1 hr. P/U & Scribe Monel, P/U gyro tool set in Monel, P/U second Monel, X/O, UBHO, X/O, TIH 2 jts HWDP, Test Motor, Test Good. TIH 18 jts HWDP, 75 jts DP. M/U pumping T, Test Motor, test good, Crew took lunch. TIH 78 jts DP. P/U power swivel, w/ jt 174. M/U wireline lubricator to top of power swivel, P/U gyro tool, M/U DP, RIH w/ gyro tool, Set tool four times to ensure proper set, Orientate bit, Slide F/ 5560' T/ 5565', While sliding Crew change @ 1800 hrs Safety Meeting fell out JSA on PSI on lines, House Keeping, ROH w/ gyro, Make connection w/ jt 175, RIH w/ gyro, Set gyro, Try to get to bottom getting hung up on Motor kick bottom of window, Make several attempts to work to bottom, ROH w/ gyro, L/D jt 175, Rig down gyro lubricator, Try to work motor through window no success, Hung swivel back in derrick. TOH 154 jts DP, 20 jts HWDP. L/D BHA X/O, UBHO, X/O, 2 jts Monel, UBHO, Motor w/ Bit. Crew change @ 0600 hrs Safety Meeting on P/U Mills, Tripping DP.



## Daily Well Report

## Well Name: Mcelmo Cr O16

API Number 43037159690000	Section	Township	Range	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Summary
13	10/6/2012	10/7/2012	Report for MCU O-16 Capital Injector Key Rig 27, P/U 6 1/4 Window Mill, 6 1/4 String Mill, 1 jt 3 1/2 DP, 2 X/O's. TIH 154 jts DP, 20 jts HWDP. P/U power swivel & 2 jts tag @ 5561'. Mills drag @ 5558', Reamed window plus 8' rat hole, Reamed until there was no drag rotating and not rotating, Circ hole while crew took lunch. L/D 2 jts & power swivel. TOH 154 jts DP, 20 jts HWDP. L/D Mills, P/U BHA for Drilling, Hughes STX 20 6 1/4 Bit, 4 3/4 Motor, UBHO, 2 jts Monel w/ gyro tool, X/O, UBHO, X/O. Crew change @ 1800 hrs Safety Meeting on Tripping DP, Hand placement and 100% Tied off. TIH 20 jts HWDP, 154 jts DP. P/U Power Swivel & rig up wireline lubricator. R/U wireline equipment and gyro tool, RIH w/ gyro set tool to UBHO several time to ensure proper set, Orientate Bit, Start slide F/ 5566' T/ 5572', 80 strks on pump, 2100psi 4 bbl a min, Mud wt 13.4 Vis 46 Ph 9, Lost signal to gyro tool, Pick up off bottom, No communication with tool, ROH w/ tool, Check tool, Tool still working, Cut rehead wireline twice total 100', Still no communication with tool, Damage wireline, Call for replacement truck, Rig down wire line equipment. Wait on wireline truck, Crew change @ 0600 hrs Safety Meeting on Rig up wireline, Overhead loads.
14	10/7/2012	10/8/2012	This is the report on MCU O-16 Capital Injector Key rig #27 Waited on logging truck to arrive from Farmington. Swap out trucks also gyro tools. Make up tool and pick up. Make up jt 175 run on in and set gyro and orientate. Slide drill to 5568. Drill operations were 18 K down with circulating pressure at 1800 psi at 3.5 bbls a min with good returns small amount of formation shale, and metal shaving. and cement Mud weight at 13.2 PH at 9, Vist 45. Had problems with wireline and gyro tools having no readings. Pull tools and found cement around gyro tools.. Circulate well around for 1 hour. Drilled 2 ft circulate well clean. Decided to pull out BHA to check motor and bit. Hang back swivel an TOH with BHA.. There was no visible scarring along side the motor but the bit had some markings. With returns of cement and metal shaving during drilling operating indicate that we are drilling alone side the casing. Notify Donnie about the situation and a decision was made to set another RBP and whipstock. Called around to get equipment lined out. Waited on wireline truck. Crew change at 6:00 Tail gate safety meeting with all contractors on location topic was wireline operations, suspended loads, communication, team work, Cont to wait on wireline truck.
15	10/8/2012	10/9/2012	This is the report on the MCU O-16 Capital Injector Key rig # 27 Waited on wireline truck. BlueJet on location. Hold safety meeting with all contractors on location topic was suspended loads, communication, job task. Rig up wireline and pick up RBP run on in and set at 5500. Pressure test plug to 500 psi (Good Test). Rig down wireline. Make up BHA with 7' Anchor, Extruder sub, 7' Whipstock, 6 1/4 Starter mill, 6 1/4 Flex mill, 1 jt of 3 1/2 DP, 3 1/2 IF x 2 7/8 AOH X over, 2 7/8 AOH UBHO Sub, 2 7/8 AOH x 2 7/8 H-90 20 jts of Heavy Weight Spiral Drill Pipe, 2 7/8 H-90 x 2 7/8 AOH. TIH with 172 jt to the depth of 5463 .Rig up and pump 34 bbls to clean out debris from tubing. Pick up 10 ft sub and make-up. Rig-up wireline and picked up Gyro tools to run a small survey. Crew change at 1800 hours tail gate safety meeting with all contractors on location topic was wireline operating, rigging up power swivel, hand placement, job task. Continue to run survey. Pull up and orientate whipstock with Gyro tool face at 89.83 with Azimuth at 176.37 INC at 0.75. Pull up and shear bolt at 30 K. The top of window is at 5486 and the bottom at 5494. Lay down 10 ft sub and rig up power swivel on jt 173 Brake circulation and start milling with 2 K down, 100 on RPM, pump pressure at 1000 psi pumping 3 bbls a min, mud weight at 13.2, vist at 45, PH 9.5, with good returns of metal shaving and scale. Crew change at 6:00 tail gate safety meeting with contractors on location topic was job task, good house keeping, high pressure lines, staying on top of fluids. Continue to mill out window.
16	10/9/2012	10/10/2012	This is on the MCU O-16 Capital Injector Key rig #27 Continue to mill out window from 5486 to 5497 with 3 K down at the start gradually increasing to 6 K down up to 12 k down. 1000 psi on pump pressure at 3 bbls a min, mud weight at 13.5. Recondition mud weight during milling operations. New mud weight at 13#, 43 vist, 9.5 PH, with good returns of metal shaving turning to cement and formation shale. Milled out to 5497 Have 17 hours. on mills, Lack 3 ft to finish drilling out the 6 ft of formation ask in the procedure..Circulate well clean for 1 hour and work mills through window with no drag or over pull. Hang swivel back and TOH with BHA. Make -up BHA with 6 1/4 bit, 3 1/2 IF x 3 1/2 reg Bit Sub, 1 jt of 3 1/2 drill pipe, 3 1/2 x 2 7/8 x over, 20 jts of HWDP 2 7/8 IF x 2 7/8 AOH x over and 173 jts to the depth of 5475. Rig up power swivel on jt 174 and establish circulation mud weight at 13# 9.5 on PH, vist at 45. Slide through window at 5486.Started drilling. Crew change at 6:00 tail gate safety meeting with all contractors on location topic was hearing protection, high pressure lines, tripping DP. Drilling ahead at 5499 at report time.



## Daily Well Report

## Well Name: Mcelmo Cr O16

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Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Summary
17	10/10/2012	10/11/2012	Report for MCU O-16 Capital Injector Key Rig 27, Continue to Drill out Rat hole F/ 5499' T/ 5509' 12' rat hole, Mud 13.1 wgt 44 vis 9.5 Ph, 1200psi 3 bbls a min 15 K on the bit, Circ well clean for 1 hr. Hang swivel back in derrick. Rig up wireline equipment & gyro tool, RIH w/ Gyro tool, Tagging 30' above the bit, Night crew did not lay down UBHO on top of 3 1/2 DP, ROH w/ Gyro, Rig down wire line equipment & Gyro tool. TOH 152 jts DP, 20 jts HWDP. Lay down 2 jts DP, X/O, 3 1/2 DP, Bit sub, 6 1/4 Button Bit, Move Mud Motor F/ trailer T/ catwalk. Tally & P/U new Mud Motor w/ 6 1/4 STX-20 Bit, Crew Change @ 1800 hrs Safety Meeting fill out JSA (Manual Tongs, Snub Lines, Tripping DP) Break motor change degree on motor to 1.83, Scribe motor & Set UBHO, R/U pumping T test motor, Good Test, P/U 1 jt Monel, P/U Gyro tool set inside of Monel, P/U 2nd Monel, 3 1/2 IF X 2 7/8 AHO X/O, 2 7/8 AHO X 2 7/8 H90 X/O. TIH 20 jts HWDP, 64 jts DP. P/U pumping T, Test Motor, Good Test. TIH 89 jts. P/U Power Swivel w/ jt 173 Tag @ 5509'. Kick on the pump to break Circ, All 3 liners on pump were leaking, Shut down pump, L/D jt 173, Bring BHA back into Casing, Tear into pump to replace liners, 2 Liners rusted to liner cradle unable to replace, Call Dawn to bring replacement pump from key yard, Crew Change @ 0600 hrs Safety Meeting fill out JSA (Hand Placement, Looking out for one another)
18	10/11/2012	10/12/2012	Report for MCU O-16 Capital Injector Key Rig 27, Rig down pump lines, pump controller off rig floor, Make ready to move pump to Key yard. Waited on Dawn truck to change out pumps for 3 hrs. Dawn truck on loc, Move diesel tank, P/U pump and move to Key yard, Bring replacement pump, Spot in pump, Respot diesel tank. Rig up pump lines to pit, Pump Controller to rig floor, Check fluids and started pump, Circ pump to pit. P/U jt 173 w/ Swivel, Tag @ 5509', Rotate Drill F/ 5509' T/ 5532', 13.1 wgt 57 Vis 9.5 Ph, 1400psi 3.5 bbls a min 60 rpm on DP, 20 K on the bit, 3' an hr ROP, Crew change @ 1800 hrs Safety Meeting fill out JSA (Pumping Operations, PSI on lines) Change out leaking Rotating Rubber, Survey @ 5494' 2.5 Inc 192.4 Deg, Make connection jt 174, Slide F/ 5534' T/ 5547', 20- 25K on the bit, 2' and hr ROP, 1550psi 3.5 bbls a min, Returns of sand & small amounts of rock, Shut down @ 0500 due to lighting in the area for 30min, Crew Change @ 0600 hrs Safety Meeting fill out JSA (Checking fluids, Lifting DP) Continue to Slide.
19	10/12/2012	10/13/2012	Report for MCU O-16 Capital Injector Key Rig 27, Slide F/ 5547' T/ 5555', Rotate F/ 5555' T/ 5556'. Swabs leaking on pump, Tear down pump replace 3 swabs on pump, Put pump back together and service pump. Slide F/ 5556' T/ 5563', Survey @ 5520', 2.1 Inc. Slide F/ 5563' T/ 5574', 1600psi, 3.5 bbls min, 20k on bit 60 RPM on DP while rotating, 25k when sliding, Mud 13.1 wt 48 Vis 9. Ph, Return Clay & Small bits of rock. Lost signal from MWD tool @ 1700 hrs, Mesa West trouble shoot Tool with no success, Crew change @ 1800 hrs Safety Meeting fill out JSA (Hang Swivel, 100% Tie Off). L/D 5 jts w/ power swivel. Hang Swivel back in derrick. TOH 150 jts 2 7/8 AOH DP, 20 jts HWDP. L/D 1 jt Monel, Pull MWD Tool, L/D 2nd Monel, Break apart UBHO and inspect, Pull up Motor and check Bit, Cones are tight, no Buttons missing, Slight wear on buttons, Ok to rerun bit, Scribe & M/U UBHO to motor, P/U 1 jt Monel, P/U new MWD Tool set inside Monel, P/U 2 nd Monel. TIH 20 jts HWDP, 6 jts 2 7/8 DP. Crew took lunch. TIH 144 jts 2 7/8 DP. P/U Power Swivel. P/U 5 jts w/ Power Swivel, Tag @ 5574'. Slide F/ 5574' T/ 5581', 1700psi 3.5 bbls a min @ 90 strokes, Mud 13.1wt 44 Vis 9.5 Ph, Crew Change @ 0600 hrs Safety Meeting fill out JSA (Making Connections, Hand Placement).
20	10/13/2012	10/14/2012	This is report is on the MCU O-16 Capital Injector Key rig #27 Continue to slide drill from 5574 to 5563. with 20 K down pump pressure at 1800 psi at 3 bbls a min. Recondition mud from 13.1 to 12.5 vist at 40 PH at 9. Returns of shale. Rotate from 5563. to 5595.. Survey @ 5545 Inc-4.8.Azimuth at 123.70 with 3 ft from well borr Slide from 5595 to 5618. Rotate from 5618 to 5627 with 6 ft a hour on penetrating rate.The piston was going out.on the rig pump call Dawn and made arrangement to have pump switched out. Shut down to swap out pumps Break circulation when well started to come around had a 30 bbls kick.Mud weight at 12.6 vist at 40 PH 9 circulate kick around for 1 hour.Survey at 5577 Inc at 8.8 Azimuth at 129.40 with 5.47 ft from well bore. Make - up jt 177 break circulation made 3 ft when pump liner were loose shut down for 1 hour to work on pump. Reestablish circulation and slide from 5641 to 5647 Rotate from 5647 to 5649. Rig pump down work on pump for 1 hour. Survey at 5608 Inc at 12.10 Azimuth at 1.30 Crew change at 6:00 safety meeting with crew topic was high pressure lines, keeping a eye on fluids, job task. Continue to slide from 5658
21	10/14/2012	10/15/2012	This is the report on the MCU O-16 Capital Injector Key rig #27 Continue to slide from 5658 to 5670 with 20 K down pump pressure at 1900 psi with 3 bbls min, Mud weight at 12.4 vist at 43,PH at 9.5 with good returns of shale. Shut down and work on rig pump. Establish circulation and rotate from 5670 to 5690. Survey at 5640 Inc at 14.9 Azimuth 123.0 with 15 ft from well bore. Pick-up jt 179 and slide from 5690 to 5700 rotate from 5700 to 5721. Survey at 5671 Inc at 15.7 Azimuth at 117. 22 ft from well bore. Slide from 5721 to 5727.Pick-up jt 180 and work on rig pump. Circulate well around had a small kick of 15 bbls circulate gas bubble around. Slide from 5727 to 5729 rotate from 5727 to 5753. Survey at 5703 Inc at 16.2 Azimuth at 110 30 ft from well bore. Pick-up jt 181 slide from 5761 to 5784 Survey at 5734 Azimuth at 103. 39 ft from well bore. Pick up jt 182 rotate from 5784 to 5815 Measured depth. Crew change at 6:00 safety meeting with rig contractors on location topic was hand placement, communication, tripping DP. Circulate well clean and TOH with directional tools.



## Daily Well Report

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Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Summary
22	10/15/2012	10/16/2012	This is the report on MCU O-16 Capital Injector Key rig #27 Finish circulating well clean. Lay down 12 jts with power swivel no over pull or drag. Slide above the window. TOH with Directional tools and break them down and load..Crew ate lunch. Make up BHA with 6 1/4 bit, bit sub 20 jt HWDP x over 170 jt of AOH Drill pipe.Start picking up DP tag the top of whipstock at 5486 with 11 ft in on jt 176 slide on down to 5790. Crew change at 1800 safety meeting with contractors on location topic was hand placement,rigging -up swivel, watching out for pressure. Rig up swivel on jt 184. Circulate well around with 220 bbls of P/W. Haul mud back to mud plant.to be recondition. Well started to flow pressure starting at 50 psi climbing to 700 psi and level off at 1250 psi. Calculate mud weight at 12.9. Notify Terrance at mud plant for mud weight, Wait on mud to be delivered from mud plant.Had mud delivered and run across shakers. Circulate well around with 220 bbls of 13# mud Work jt up and down had good returns. Pick up jt 185 rotate on in and tag at 5815. Started to drill made 5 ft when we lose circulation pull up but was stuck. Work pipe to free up with out no success.Crew change at 6:00 Tail gate safety meeting with all contractors on location topic was staying off floor when pulling on pipe, job task, housekeeping. Pump F/W to try to free pipe.
23	10/16/2012	10/17/2012	Report for MCU O16 Capital Injector Key Rig 27, Pumped 180 bbls Fresh water down DP, Return mud to pit. Drill pipe freed up, L/D 10 jts DP w/ power swivel, BHA in casing. Call for trucks to bring Produce water and empty frac tanks, While waiting rig down flow line to gas buster and installed a blanking flange. 240 bbls P/W on loc, P/U 10 jts DP w/ swivel tag @ 5845'. Pumping Produce water @ 500psi 1.5 bbls a min, 70 RPM on DP, 10K to 15K on bit, Returns of gas, formation and fluid going out to frac tanks, 13' an hr rate of penetration, Crew change @ 1800 hrs Safety Meeting on Driving on lease roads, Gas monitors and wind direction, TD 5932' @ 2000hrs. Circ well clean for 1 hr. L/D 19 jts DP w/ Power Swivel, Hang swivel back in derrick. Pump 150 bbls 12# mud to kill well. TOH 150 jts DP. L/D 20 jts HWDP, Bit sub, Float and Bit, Tally & P/U, 4' perf sub w/ bull plug, 30 jts 2 7/8 YB tbg, Treating PKR, X/O. TIH 150 jts DP. P/U 7 jts DP, Set End of TBG @ 5924', 8' off bottom, PKR @ 4949'. Halliburton Acid crew on loc, Moving pipe racks to spot in trucks, Crew change @ 0600 hrs, Safety Meeting on Forklift operations, Ground guides, Driving on lease roads.
24	10/17/2012	10/18/2012	Report for MCU O-16 Capital Injector Key Rig 27, Spot in Acid trucks, Safety Meeting w/ everyone on loc 14 personnel Job hazards, Shower Usage, Communication, Rig up hard lines to DP, Lines from transfer truck & vac truck to pump truck, PSI test lines to 4800psi, Test good, Pump 5 bbls Fresh water head, 95.2 bbls 28% HCL Acid, PSI @ 2211psi 2 bbls a min, PSI slowly dropped down to 1080psi, Switch to displacement 87 bbls Fresh water, 60 bbls of over displacement, ISIP @ 1270psi, 5 min 568psi, 10 min 361psi, 15 min 350psi, Shut well @ 0945, Rig down hard lines and hoses, Release Acid crew. Wait 2 hours for Acid to soak, While waiting crew change out packing on power swivel, Rig hard lines from DP to Choke manifold. After 2 hr, DP PSI @ 40psi, Open well to frac tank bleed off PSI flow back well, Flowed 7 bbls fluid DP dead. Release PKR, DP flowing fluid, Mud U tubing pushing Fresh water up DP, Bleed off DP to frac tank. Rig down TIW and Pumping T, L/D 1 jt DP. TOH 156 jts DP. L/D Treating PKR, 30 jts 2 7/8 TBG, 4' perf sub w/ bull plug. Crew change @ 1800 hrs Safety Meeting on Fork lift operations, Hand signals, HT on loc to take tbg, Loaded 30 jts tbg onto trailer, Take back to Pipe yard, Move 6 jts DC from trailer onto pipe racks and Tally. Wait 1.5 hrs on Dash hotshot to bring out Mills and Wash pipe. Unload Weatherford equipment off Dash trailer, Tally and P/U Bit, Casing Scraper, Watermelon Mill, Bit Sub, X/O, Float. TIH 156 jts DP. P/U 19 jts DP. Work casing scraper & mills from 5480' to 5380'. L/D 5 jts DP. TOH 170 jts DP. L/D Float, X/O, Bit Sub, Watermelon Mill, Casing Scraper and Bit, Tally & P/U Shoe, 4 jts Wash Pipe, Canifield Bushing, Float. Crew change @ 0600 hrs Safety Meeting on 100% Tie off, DP Handling, Tong Operations.
25	10/18/2012	10/19/2012	Report for MCU O-16 Capital Injector Key Rig 27, TIH 170 jts DP. Work wash over pipe F/ 5380' T/ 5480' prep for Metal Skins. TOH 170 jts DP. L/D Float sub, X/O, Canifield Bushing, 4 jts Wash Over Pipe, Shoe. TIH Open ended 50 jts Kill string, M/U TIW w/ Pumping T, Shut in well. Wait on Metal Skins for 8 hrs, Crew change @ 1800 hrs Safety Meeting on Housekeeping, Maintenance. Spot in Dash trailer w/ Metal Skins,Spot Casing Crew trailer and truck. TOH 50 jts Kill string. P/U Cone, GS Spear Receiver, MCL Anchor Joint, MCL Standard Joint, MCL Isolation Joint, MCL Top Joint, Telescoping Liner Stop, Split Bushing, GS Spear, Debris Sub, Inner String (3 1/2" Sub), X/O, Ext Bar, Profile Sub, Sucker Rod Box, HOMCO Setting Tool, X/O, 2 7/8 L-80 tbg, X/O, Bumper Sub, Slide Valve, X/O, 2 7/8 L-80 tbg, Sub. TIH 100 jts DP. Crew Change @ 0600 hrs Safety Meeting on Tripping DP, Proper Back Up.



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Report Number	Start Date	End Date	Summary
26	10/19/2012	10/20/2012	This is the report on MCU O-16 Capital Injector Key rig # 27 Finish TIH with BHA to 5240. Pick-up jt 167 and run on in 20 ft to 5260. Hold safety meeting with all personally on location topic high pressure lines, communication, job task. Rig up pump truck and swivel Pull up and jack skins pull 110 K set metal skins the bottom of skin is at 5455 the top is at 5380. (Expanded Casing OD at 6.17, ID at 5.46) Drift 5.458, Internal Burst at 3,390 psi. Rig down swivel and pump truck. TOH with setting tools. Break down tools and load to be haul back to Farmington. Crew change at 1800 safety meeting with contractors on location topic hand placement, communication, job task. Make up BHA with Arrow set 1-X packer Block extended OD of 5.76, Block Collapsed OD of 5.387, Drifted at 2.370 Seal Mandrel. with on and off tool with 4 ft perf sub. TIH to top of liner at 5380 slide on in to 54441 and set. Circulate well around with 230 bbls of F/W. Haul mud back to mud plant. TOH laying down 115 jts and transfer to trailer. TOH with 1800 ft of DP. Break down perf sub and on and off tool. Make -up BHA with 7' RBP. TIH and set at 1800 ft. Pressure test plug to 1200 psi (Good Test). Dump sand on top of plug. Start out with DP. Crew change at 6:00 safety meeting with contractors on location topic was tripping DP, job task. Finish TOH
27	10/20/2012	10/21/2012	This is the report on the MCU O-16 Capital Injector Key rig # 27. Finish TOH with BHA. Waited on wireline truck. Spot in wireline truck. Hold safety meeting with rig crew topic was wireline operations, Pick-up tool and run a short strip from 1794 to surface with MTT to identify casing for metal skins. Send all log to Jim Styler. Pick up perf gun to shoot squeeze holes at 1680 with 4 shot per ft over 2 foot interval. Come out and rig down wireline Pump 2 bbls and pressure went up to 500 psi started to circulate well around through braden head pumping at 2 bbls a min pressure drop to 150 psi. Had good circulation when it started to circulate around surface casing. Novity Jim also Donnie about the situation. BJ on location with 500 sacks of cement. Had treater turn around to get lost circulation material. TIH and set cement retainer at 1616. Hook up BJ. Hold safety meeting with 16 personel on location topic was high pressure lines, job task, pressure test hard lines to 3500 psi. Stage 20 bbls of water with LCM at 670 psi. at 4 bbls a min. Stage 122 bbls of cement at 14.6 ppg. at 700 psi with 4 bbls a min. Stage 6.4 water displacement. at 920 psi at 4 bbls a min. shut down sting out and lay down 1 jt. Reverse 1 bbl cement out Total bbls pump was 163.4 with 79.21 of cement. Type 3 cement yield at 1.37 and water GPS of 6.64. Lay down 5 jts and TOH with BHA. Break down tools Drain all equipment and secure well. Well to be shut in for 24 hours.
28	10/21/2012	10/22/2012	This is on MCU O-16 Capital Injector Key rig # 27 No rig activity waiting on cement.. Crew on location at 18:00 hour safety meeting with all contractors on location topic was Picking-up collars, suspended loads, communication, Rig crew service the rig work on lights on derrick sevice rig pump also power swivel. Set pipe rack back in place and transfer 6 Drill Collars to racks and tally. Make-up BHA with 4 blade junk mill plus 6 collars x over from lf back to AOH. TIH and tag at 1588 mill out cement to 1605 circulate clean. Pick up jt # 46 esblish circulating and mill out to 1616. tag retainer and start mill with 3K down with pump pressure at 4.50 psi at 2 bbls a min with good returns of metal shaving. Crew change at 6:00 safety meeting with rig crew topic was housekeeping, job task. Cont to mill out
29	10/22/2012	10/23/2012	Report for MCU O-16 Capital Injector Key Rig 27, Drill out Retainer F/ 1616' T/ 1619', Drill out Cement F/ 1619' T/ 1710', Pumping 2.5 bbls a min @ 500psi, 60 RPM on DP, 5K 10K on the Bit, Returns of metal shavings & cement. Circ well bore clean for 30 min. PSI test casing to 1000psi for 10 min, Lost 100psi in 8 min, PSI back up to 1000psi, Same results, Release PSI. Hang swivel back in derrick. TOH 50 jts DP. L/D 6 jts 3 1/2 DC, Bit sub, 4 Blade junk Mill, Tally and P/U PKR. TIH 10 jts DP, Crew change @ 1800 hrs Safety Meeting on 100% tie off, Tong hazards, Continue to TIH 42 jts DP. Set PKR @ 1651', PSI Test casing F/ PKR T/ Surface to 1080psi for 15 min test good, Test F/ PKR T/ RBP to 1000psi, Lost 500psi in 1 min, Release PKR TIH 2 jts DP, Set PKR @ 1715', Test Casing F/ PKR T/ RPB to 1000psi for 15 min, Test good, Test F/ PKR T/ Surface to 1000psi, Lost 500psi in 1min, Release PKR. TOH 52 jts DP. L/D PKR, Tally and P/U X/O, Magnet. TIH 52 jts DP, P/U 1 jt tag top of sand w/ Magnet. TOH 53 jts, Magnet full of metal pieces, Clean off Magnet. TIH 53 jts DP, Tag sand w/ Magnet. TOH 53 jts DP, Magnet 3/4 full of metal pieces. Take samples off Magnet, L/D Magnet, X/O, P/U RBP Retrieving tool. TIH 52 jts DP. P/U Power Swivel w/ jt 53. Tag Sand @ 1794', Reverse Circ 6' of sand off RBP, Latch onto RBP & Release. Hang Swivel back in derrick. TOH 22 jts DP. Crew change @ 0600 hrs Safety Meeting on Hand Placement, Communication.



## Daily Well Report

## Well Name: Mcelmo Cr O16

API Number 43037159690000	Section	Township	Range	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Summary
30	10/23/2012	10/24/2012	Report for MCU O-16 Capital Injector Key Rig 27, TOH 30 jts DP. L/D RBP & Retrieving tool, Tally and Pick up 6 1/4 Button Bit, Scraper, 6.3935 Watermelon Mill, X/O. Attempt to TIH, Tagging 46' below surface, Work DP, Turning pipe w/ tongs, Still wont go down, Call and notify Jim & Wilson, P/U Power Swivel, Gently tag tight spot while rotating, Pipe torque ing up, Wont go down, Hang Swivel back, Pull 2 jts DP, L/D 6.3935 Mill, P/U 6.3035 Watermelon Mill, TIH 2 jts, 6.3035 Mill go through tight spot no problem, Pull 2 jts DP, L/D 6.3035 Mill, P/U 6.3935 Mill, TIH 1 jt DP, P/U Power swivel w/ 2nd jt, 6.3935 Mill tagging @ tight spot, Break Circ w/ fresh water, Try to work Mill through tight spot while rotating, No success, L/D 1 jt w/ Swivel, Hang swivel back, Pull 1 jt DP, Change out Watermelon Mill 6.3935 to 6.3035. TIH 52 jts DP. P/U Power swivel. Break Circ w/ fresh water, Work BHA F/ 1642' T/ 1737', Made 3 connections. Hang Swivel back in derrick. L/D 5 jts DP. TOH 50 jts DP. Crew change @ 1800 hrs Safety Meeting on Winch operations, Communication, Hand placement. Pick and Make up X/O, Slide Valve, 2 3/8 Bumper Sub, 2 jts 2 7/8 L-80 TBG, Stand back in derrick, Rig up Casing Crew, M/U GS Spear Receiver, Anchor Joint, Standard Joint, Isolation Joint, Top Joint, Telescoping Liner Stop, Rig down Casing Crew, M/U Split Bushing, GS Spear, Debris Sub, Inner String 3 1/2 Sub, X/O, Ext Bars, Profile Sub, Sucker Rod Box, HOMCO Setting Tool, Hydraulic Hold Down, Run assembly inside of Skin, M/U to 2 7/8 assembly. TIH 50 jts DP. Rig up Wilson Service pump, Load tbg w/ fresh water, PSI up to 3500psi, Engage Jack, PSI up to 4500psi, fully engage jack, Repeat process 26 times, Set Metal Skin Top of Skin @ 1627' Bottom @ 1730', ID of Skin 5.678, Drift 5.553. Rig down Wilson Services, Crew change @ 0600 hrs Safety Meeting on Laying Down DP, PPE.
31	10/24/2012	10/25/2012	Report for MCU O-16 Capital Injector Key Rig 27, Rig down pump lines and equipment, Rig up pumping T to DP. PSI test casing to 1000psi for 30 min, Test good no lost, Release PSI, Rig down pumping T. L/D 50 jts DP, Weatherford Skin setting tool. Waited 1.5 hr for Dash to move out Trailer make room to move DP. Move DP from racks to trailer, Spot in tbg trailer move tbg from trailer to racks and tally. Too windy to P/U tbg, Wait on Weather for 5.5 hrs, Crew change @ 1800 hrs Safety Meeting on Pick up TBG, Tong Operations, Fork lift Safety, Wind clam down enough to start picking up tbg @ 1930 hrs. Pick and make up On & Off tool w/ Nickel coated nipple, 113 jts 2 7/8 TK tbg, 1 bad jt bent. Crew took lunch, Moved more tbg to racks and tally. P/U 65 jts 2 7/8 tbg, Total of 178 jts. Tag PKR @ 5434. Pick up 2' circ 30 bbls packer fluid clean top of PKR, Latch onto to PKR, Space out for pub jts, Release off PKR, Start pumping packer fluid, Crew change @ 0600 hrs Safety Meeting on Pumping Operations, PSI on lines, Ground guides for vac trucks.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420603372
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO  <b>7.UNIT or CA AGREEMENT NAME:</b> MCELMO CREEK
<b>1. TYPE OF WELL</b> Water Injection Well	<b>8. WELL NAME and NUMBER:</b> NAVAJO C-3 (MCELMO O-16)
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES	<b>9. API NUMBER:</b> 43037159690000
<b>3. ADDRESS OF OPERATOR:</b> 1675 Boradway Ste 1950 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 534-4600 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH  <b>COUNTY:</b> SAN JUAN  <b>STATE:</b> 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 type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/16/2012	<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"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Resolute completed deepening the MCU O-16 on 10/17/12. A completion report will be submitted when the well is put back to production. Daily drilling report is attached.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 29, 2012

<b>NAME (PLEASE PRINT)</b> Shery Glass	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr Regulatory Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/29/2012	



## Daily Well Report

## Well Name: Mcelmo Cr O16

API Number 43037159690000	Section	Township	Range	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Job Category Completion/Workover	Primary Job Type Recompletion	Secondary Job Type	Working Interest (%) 71.25
Start Date 9/30/2012	End Date 10/25/2012	AFE Number 10012763	

Objective  
Job scope: Retrieve existing tubing and packer, sidetrack out of the existing 7" casing at ~5100' and drill to a projected depth of 5913' TVD (~2' into Chimney Rock shale) using nitrogen as required; stimulate the open hole IIC section, run new 2-7/8" TK Fiberline tubing with KC couplings and new injection packer. Since this well is on the Horsley-Witten list, Chinle isolation is planned, with MetalSkin™ patches included to ensure integrity of the shallow squeeze perforations.

Contractor Key	Rig Number #27	Rig Type	Rig Start Date 9/30/2012	Rig Release Date
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Report Number	Start Date	End Date	Summary
1	8/28/2012	8/28/2012	Move frac tank from L-13 to location, location sandy got stuck, use load to pull truck out
2	8/29/2012	8/29/2012	Bleed down injection to cap off injection lateral at MCU O-17
3	8/30/2012	8/30/2012	Cut CO2 injection line below grade and install valve, cut rusted bolts to dismantal H2O, CO2 injection skid, prep location for DCIIC 24 hour Rig and MCU well O-16
4	9/1/2012	9/1/2012	Load & haul dirt, blade loc
5	9/12/2012	8/31/2012	Blade off loc. level & blade road
6	9/29/2012	9/29/2012	Lansing spot in frac tank, Jr Contraction R/U flow line from Wellhead to frac tank, SITP 1500psi SICP 0psi, Open well to frac tank flow back well to bleed off psi, PSI dropped down to 1300psi, Well flowing mostly gas and little fluid @ 1300psi for first 30 min then mostly fluid, 3 hours flow back, Returned 340 bbls fluid, SIW TBG @ 1300psi, Hauled off 160 bbls to area 1, Open tbg to frac tank @ 1300psi, flow back 90 bbls of fluid, PSI dropped down to 1000psi, SIW Area 1 tanks full, TBG 1000psi, Released flow back crew.
7	9/30/2012	10/1/2012	Report for MCU O-16 Capital Injector Key Rig 27, Loc is clean & dry No Chemical, Injection line removed Anchor test 9 of 2012 Fuses pulled @ transformer 5 K well head 1300psi on TBG, 0 on csg, 0 braiding head Dawn Trucking move equipment onto loc. LJB level ground for rig ramp, Spot in ramp, Pit, Gas Buster, Rig Pump, Spot in DP Trailers on loc, Winch Unit onto ramp, Spot in light plant, Upright tank, Fuel skid, Solids Bin, Transfer tank, Open top frac tank. Set out Safety Equipment, LOTO all power sources, Start rigging up Unit, walkways, steps, hand rails, Raise derrick, secure guide lines, R/U pump, electrical lines, hoses, R/U 3" hard lines from choke manifold to lay down tanks, R/U hard lines from upper tree to choke. SITP 1300psi, Open tbg to frac tank flow back well, PSI dropped down to 100psi flowing, Return Co2 for 10 min then fluid, Crew change @ 1800 Safety Meeting fill out JSA (Rigging up, Pumping operations). Flow well back for 2 hours, PSI dropped down to 50psi flowing fluid. 10# Brine on loc, SIW TBG PSI up to 1000psi quickly, Pump 40 bbls 10#, SIW well for 1 hr, PSI @ 900psi, Call for kill mud. Wait 1.5 hr on mud. 14# mud on loc, Pump 40 bbls mud down tbg, TBG dead. Remove bolts & upper tree. R/U 2 pub jts w/ TIW to tbg hanger, Strip on BOP, Secure bolts, R/U Accumulator lines, Check for proper operation. R/U floor, steps, handrails, tbg tongs, tools, Racking board skid & blocks, catwalk w/ V door slide. Crew change @ 0600 Safety Meeting fill out JSA (PSI test BOP, Job hazards)
8	10/1/2012	10/2/2012	This is the report on the MCU O-16 Capital Injector Key rig #27 Work on lock down pins. Pull -up and release off packer. Pressure went up to 400 psi. Latch back on. Went down to office to look at files with Wilson. This well has 2 7/8 cement lined tubing with a Baker inverted lock set packer with shot off valve. Shut in well and pull-up and J-off of packer. Open well and bleed off pressure through choke to work tanks. Pressure at 450 psi dropping down to 0 psi. Layed down 4 jts and make up packer and test BOP stack 200 low and 1000 high. Start laying down tubing and transfer to trailer. Lay down 180 jts with on and off tool with the total depth of 5632.65. transfer tubing to trailer Crew Change at 1800 tail gate safety meeting with all contractors on location topic was fork operation, communication, job task, Transfer AOH to pipe rack tally and make up plug and set at 360 ft Wait on vac truck. Pump 20bbls till well cleaned up. Pressure test plug to 500 psi. (Good Test). Stand back 6 stands. Rig down rig floor and nipple down BOP stack and set back. Hold safety meeting with 11 personal on location topic was fire watch, fire extinguisher, grinding, Had ABC monitors all reading around well head 0 on all readings. Had welder cut off all bolts and remove B section. Had 4 1/2 inch on stick up enough to install new 3000# well head. Test void to 2000 psi for 30 mins (Good Test). Nipple up BOP stack and have to relined gas buster. Rig up rig floor. Crew change at 6:00 Tail gate safety meeting with all contractors on location topic was hand placement, picking-up AOH Drill pipe, teamwork, forklift operations. Cont to rig back up.



## Daily Well Report

## Well Name: Mcelmo Cr O16

API Number 43037159690000	Section	Township	Range	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Summary
9	10/2/2012	10/3/2012	This report is on the MCU O-16 Capital Injector Key rig #27 Unbolt tee above Hydril to realined spool to gas buster. Finish rigging up equipment to BOP stack. Make up retrieving tool and TIH with 6 stands. Latch on and pressure test BOP stack 200 low and 1000 high. Release pressure also release plug. TOH and load up tools. Make up BHA with retrieving tool 4 ft perf sub, Xover to AOH Run 6 stands out of derrick and start picking up Drill pipe. Had to rearrange pipe trailer for forklift to maneuver around. Finish picking up and tally 178 jts to the depth of 5632. Trucks on location with 14# mud. Rig up to circulate well around with 240 bbls Crew change at 1800 hours tail gate safety meeting with rig crew topic discuss was job task, hand placement, and well control, stay off floor when working Drill pipe. Finish circulating well around. Pick-up jt 179 with TIW valve. latch on to Baker inverted lock-set packer string weight at 46K set down 2 points and rotate weight would come off repeat the process 2 more times with out any success. Pull up and work drill pipe and repeat the process again. J-off packer and rig up power swivel on jt 179. Rotate and work packer to release. Made several phone calls to different fishing companys everyone out on jobs. Call Wilson and Donnie and discuss the situation Continue to work packer down ward, made about a foot till it quit moving. Decided to J- off packer and TOH with BHA. Crew change at 6:00 Tail gate safety meeting with all contractors on location topic was communication, tripping DP, hand placement. Continue to trip out with BHA
10	10/3/2012	10/4/2012	This is the report on MCU O-16 Capital Injector Key rig #27 After crew change pulled 4 stands and tubing side started to flow. Pump 15 bbls of 13.8# mud down Drill pipe. Open well still flowing. shut in well and monitor pressures for 1 hour. All reading were 0 psi knock off hoses and take out TIW valve slight flow on tubing side. TOH with On and Off Tool.. Make-up BHA with 5 1/2 scraper and run to the depth of 5632. Lay down 10 jts of AOH Drill pipe TOH with scraper. Move equipment around to make room for BlueJet wireline. Spot in wireline truck. hold safety meeting with 11 personel on location topic disuss was wireline operations, suspended loads, pick up MTT/ 40 arm caliper casing inspection tool. Run from 5620 to 2000 ft. Send logs to Jim Styler and decide to set RBP at 5565. Come out and pressure test plug to 500 psi (Good Test). Pick-up tool to run cement bond log. Rig down wireline. Transfer 20 jts of spiral heavy weight to pipe racks and tally. Make up BHA with (7' Anchor,) (Xcluder sub) (7' pathmaster whipstock,) (6 1/4 window mill that was check for gauge) (6 1/4 flex mill) (1 jt of 3 1/2 DP) (2 7/8 AOH x 3 1/2 IF x over) (2 7/8 AOH UBHO sub) (2 7/8 H-90 x 2 7/8 AOH x over) and 20 jts of heavy weight spiral Drill pipe, (2 7/8 AOH x 2 7/8 H-90 x ove) r and 156 jts to the depth of 5557. Rig up wireline and have gyro data recalbrate tool. Crew change at 6:00 tail gate safety meeting with all contractors on location topic was high pressure lines, wireline operations, staying out floor when pull on tool jts. Continue to calbrate tools
11	10/4/2012	10/5/2012	Report for MCU O-16 Capital Injector Key Rig 27, RIH w/ gyro tool, Orientate whipstock, Set whipstock sheared anchor 10K @ 5564', 44.94 Azim, Sheared bolt @ 28K, Top of Whipstock @5550.30', Bottom of Whipstock @ 5558.05', ROH w/ gyro tool, L/D gyro tool, R/D wireline. L/D 12 jts DP. TIH 12 jts DP from derrick. P/U power swivel, w/ jt 156. Break circ, Rotating rubber leaking, Change out Rotating rubber, Start Milling out window @ 5550', 2.5 - 3 bbls min, 650 psi, Mud wgt 13.1 Vis 35 Ph 9, Crew change @ 1800 hrs fill out JSA (Rotating equipment, PSI on lines) Milled 3' rat hole, Mill quit making hole @ 5560.56', Reamend bottom & top of window until there was no drag, Circ hole clean. L/D 1 jt w/ swivel. Hang swivel back in derrick. TOH 155 jts DP, 20 jts HWDP. L/D Mills. Use forklift to move Mud Motor, Monel Collars off trailer to pipe racks, Gather lifting subs, Tally BHA. Crew Change @ 0600 hrs Safety Meeting fill out JSA (M/U BHA, Manuel tong ops, Strike zones)
12	10/5/2012	10/6/2012	Report for MCU O-16 Capital Injector Key Rig 27, R/U Manuel tongs, Torque gauge, P/U 6 1/4 button bit, Mud Motor, Change degree on motor. Wait on slip bowl, slips, collar clamp for 1 hr. P/U & Scribe Monel, P/U gyro tool set in Monel, P/U second Monel, X/O, UBHO, X/O, TIH 2 jts HWDP, Test Motor, Test Good. TIH 18 jts HWDP, 75 jts DP. M/U pumping T, Test Motor, test good, Crew took lunch. TIH 78 jts DP. P/U power swivel, w/ jt 174. M/U wireline lubricator to top of power swivel, P/U gyro tool, M/U DP, RIH w/ gyro tool, Set tool four times to ensure proper set, Orientate bit, Slide F/ 5560' T/ 5565', While sliding Crew change @ 1800 hrs Safety Meeting fell out JSA on PSI on lines, House Keeping, ROH w/ gyro, Make connection w/ jt 175, RIH w/ gyro, Set gyro, Try to get to bottom getting hung up on Motor kick bottom of window, Make several attempts to work to bottom, ROH w/ gyro, L/D jt 175, Rig down gyro lubricator, Try to work motor through window no success, Hung swivel back in derrick. TOH 154 jts DP, 20 jts HWDP. L/D BHA X/O, UBHO, X/O, 2 jts Monel, UBHO, Motor w/ Bit. Crew change @ 0600 hrs Safety Meeting on P/U Mills, Tripping DP.



## Daily Well Report

## Well Name: Mcelmo Cr O16

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Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Summary
13	10/6/2012	10/7/2012	Report for MCU O-16 Capital Injector Key Rig 27, P/U 6 1/4 Window Mill, 6 1/4 String Mill, 1 jt 3 1/2 DP, 2 X/O's. TIH 154 jts DP, 20 jts HWDP. P/U power swivel & 2 jts tag @ 5561'. Mills drag @ 5558', Reamed window plus 8' rat hole, Reamed until there was no drag rotating and not rotating, Circ hole while crew took lunch. L/D 2 jts & power swivel. TOH 154 jts DP, 20 jts HWDP. L/D Mills, P/U BHA for Drilling, Hughes STX 20 6 1/4 Bit, 4 3/4 Motor, UBHO, 2 jts Monel w/ gyro tool, X/O, UBHO, X/O. Crew change @ 1800 hrs Safety Meeting on Tripping DP, Hand placement and 100% Tied off. TIH 20 jts HWDP, 154 jts DP. P/U Power Swivel & rig up wireline lubricator. R/U wireline equipment and gyro tool, RIH w/ gyro set tool to UBHO several time to ensure proper set, Orientate Bit, Start slide F/ 5566' T/ 5572', 80 strks on pump, 2100psi 4 bbl a min, Mud wt 13.4 Vis 46 Ph 9, Lost signal to gyro tool, Pick up off bottom, No communication with tool, ROH w/ tool, Check tool, Tool still working, Cut rehead wireline twice total 100', Still no communication with tool, Damage wireline, Call for replacement truck, Rig down wire line equipment. Wait on wireline truck, Crew change @ 0600 hrs Safety Meeting on Rig up wireline, Overhead loads.
14	10/7/2012	10/8/2012	This is the report on MCU O-16 Capital Injector Key rig #27 Waited on logging truck to arrive from Farmington. Swap out trucks also gyro tools. Make up tool and pick up. Make up jt 175 run on in and set gyro and orientate. Slide drill to 5568. Drill operations were 18 K down with circulating pressure at 1800 psi at 3.5 bbls a min with good returns small amount of formation shale, and metal shaving. and cement Mud weight at 13.2 PH at 9, Vist 45. Had problems with wireline and gyro tools having no readings. Pull tools and found cement around gyro tools.. Circulate well around for 1 hour. Drilled 2 ft circulate well clean. Decided to pull out BHA to check motor and bit. Hang back swivel an TOH with BHA.. There was no visible scarring along side the motor but the bit had some markings. With returns of cement and metal shaving during drilling operating indicate that we are drilling alone side the casing. Notify Donnie about the situation and a decision was made to set another RBP and whipstock. Called around to get equipment lined out. Waited on wireline truck. Crew change at 6:00 Tail gate safety meeting with all contractors on location topic was wireline operations, suspended loads, communication, team work, Cont to wait on wireline truck.
15	10/8/2012	10/9/2012	This is the report on the MCU O-16 Capital Injector Key rig # 27 Waited on wireline truck. BlueJet on location. Hold safety meeting with all contractors on location topic was suspended loads, communication, job task. Rig up wireline and pick up RBP run on in and set at 5500. Pressure test plug to 500 psi (Good Test). Rig down wireline. Make up BHA with 7' Anchor, Extruder sub, 7' Whipstock, 6 1/4 Starter mill, 6 1/4 Flex mill, 1 jt of 3 1/2 DP, 3 1/2 IF x 2 7/8 AOH X over, 2 7/8 AOH UBHO Sub, 2 7/8 AOH x 2 7/8 H-90 20 jts of Heavy Weight Spiral Drill Pipe, 2 7/8 H-90 x 2 7/8 AOH. TIH with 172 jt to the depth of 5463 .Rig up and pump 34 bbls to clean out debris from tubing. Pick up 10 ft sub and make-up. Rig-up wireline and picked up Gyro tools to run a small survey. Crew change at 1800 hours tail gate safety meeting with all contractors on location topic was wireline operating, rigging up power swivel, hand placement, job task. Continue to run survey. Pull up and orientate whipstock with Gyro tool face at 89.83 with Azimuth at 176.37 INC at 0.75. Pull up and shear bolt at 30 K. The top of window is at 5486 and the bottom at 5494. Lay down 10 ft sub and rig up power swivel on jt 173 Brake circulation and start milling with 2 K down, 100 on RPM, pump pressure at 1000 psi pumping 3 bbls a min, mud weight at 13.2, vist at 45, PH 9.5, with good returns of metal shaving and scale. Crew change at 6:00 tail gate safety meeting with contractors on location topic was job task, good house keeping, high pressure lines, staying on top of fluids. Continue to mill out window.
16	10/9/2012	10/10/2012	This is on the MCU O-16 Capital Injector Key rig #27 Continue to mill out window from 5486 to 5497 with 3 K down at the start gradually increasing to 6 K down up to 12 k down. 1000 psi on pump pressure at 3 bbls a min, mud weight at 13.5. Recondition mud weight during milling operations. New mud weight at 13#, 43 vist, 9.5 PH, with good returns of metal shaving turning to cement and formation shale. Milled out to 5497 Have 17 hours. on mills, Lack 3 ft to finish drilling out the 6 ft of formation ask in the procedure..Circulate well clean for 1 hour and work mills through window with no drag or over pull. Hang swivel back and TOH with BHA. Make -up BHA with 6 1/4 bit, 3 1/2 IF x 3 1/2 reg Bit Sub, 1 jt of 3 1/2 drill pipe, 3 1/2 x 2 7/8 x over, 20 jts of HWDP 2 7/8 IF x 2 7/8 AOH x over and 173 jts to the depth of 5475. Rig up power swivel on jt 174 and establish circulation mud weight at 13# 9.5 on PH, vist at 45. Slide through window at 5486.Started drilling. Crew change at 6:00 tail gate safety meeting with all contractors on location topic was hearing protection, high pressure lines, tripping DP. Drilling ahead at 5499 at report time.



## Daily Well Report

## Well Name: Mcelmo Cr O16

API Number 43037159690000	Section	Township	Range	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Summary
17	10/10/2012	10/11/2012	Report for MCU O-16 Capital Injector Key Rig 27, Continue to Drill out Rat hole F/ 5499' T/ 5509' 12' rat hole, Mud 13.1 wgt 44 vis 9.5 Ph, 1200psi 3 bbls a min 15 K on the bit, Circ well clean for 1 hr. Hang swivel back in derrick. Rig up wireline equipment & gyro tool, RIH w/ Gyro tool, Tagging 30' above the bit, Night crew did not lay down UBHO on top of 3 1/2 DP, ROH w/ Gyro, Rig down wire line equipment & Gyro tool. TOH 152 jts DP, 20 jts HWDP. Lay down 2 jts DP, X/O, 3 1/2 DP, Bit sub, 6 1/4 Button Bit, Move Mud Motor F/ trailer T/ catwalk. Tally & P/U new Mud Motor w/ 6 1/4 STX-20 Bit, Crew Change @ 1800 hrs Safety Meeting fill out JSA (Manual Tongs, Snub Lines, Tripping DP) Break motor change degree on motor to 1.83, Scribe motor & Set UBHO, R/U pumping T test motor, Good Test, P/U 1 jt Monel, P/U Gyro tool set inside of Monel, P/U 2nd Monel, 3 1/2 IF X 2 7/8 AHO X/O, 2 7/8 AHO X 2 7/8 H90 X/O. TIH 20 jts HWDP, 64 jts DP. P/U pumping T, Test Motor, Good Test. TIH 89 jts. P/U Power Swivel w/ jt 173 Tag @ 5509'. Kick on the pump to break Circ, All 3 liners on pump were leaking, Shut down pump, L/D jt 173, Bring BHA back into Casing, Tear into pump to replace liners, 2 Liners rusted to liner cradle unable to replace, Call Dawn to bring replacement pump from key yard, Crew Change @ 0600 hrs Safety Meeting fill out JSA (Hand Placement, Looking out for one another)
18	10/11/2012	10/12/2012	Report for MCU O-16 Capital Injector Key Rig 27, Rig down pump lines, pump controller off rig floor, Make ready to move pump to Key yard. Waited on Dawn truck to change out pumps for 3 hrs. Dawn truck on loc, Move diesel tank, P/U pump and move to Key yard, Bring replacement pump, Spot in pump, Respot diesel tank. Rig up pump lines to pit, Pump Controller to rig floor, Check fluids and started pump, Circ pump to pit. P/U jt 173 w/ Swivel, Tag @ 5509', Rotate Drill F/ 5509' T/ 5532', 13.1 wgt 57 Vis 9.5 Ph, 1400psi 3.5 bbls a min 60 rpm on DP, 20 K on the bit, 3' an hr ROP, Crew change @ 1800 hrs Safety Meeting fill out JSA (Pumping Operations, PSI on lines) Change out leaking Rotating Rubber, Survey @ 5494' 2.5 Inc 192.4 Deg, Make connection jt 174, Slide F/ 5534' T/ 5547', 20- 25K on the bit, 2' and hr ROP, 1550psi 3.5 bbls a min, Returns of sand & small amounts of rock, Shut down @ 0500 due to lighting in the area for 30min, Crew Change @ 0600 hrs Safety Meeting fill out JSA (Checking fluids, Lifting DP) Continue to Slide.
19	10/12/2012	10/13/2012	Report for MCU O-16 Capital Injector Key Rig 27, Slide F/ 5547' T/ 5555', Rotate F/ 5555' T/ 5556'. Swabs leaking on pump, Tear down pump replace 3 swabs on pump, Put pump back together and service pump. Slide F/ 5556' T/ 5563', Survey @ 5520', 2.1 Inc. Slide F/ 5563' T/ 5574', 1600psi, 3.5 bbls min, 20k on bit 60 RPM on DP while rotating, 25k when sliding, Mud 13.1 wt 48 Vis 9. Ph, Return Clay & Small bits of rock. Lost signal from MWD tool @ 1700 hrs, Mesa West trouble shoot Tool with no success, Crew change @ 1800 hrs Safety Meeting fill out JSA (Hang Swivel, 100% Tie Off). L/D 5 jts w/ power swivel. Hang Swivel back in derrick. TOH 150 jts 2 7/8 AOH DP, 20 jts HWDP. L/D 1 jt Monel, Pull MWD Tool, L/D 2nd Monel, Break apart UBHO and inspect, Pull up Motor and check Bit, Cones are tight, no Buttons missing, Slight wear on buttons, Ok to rerun bit, Scribe & M/U UBHO to motor, P/U 1 jt Monel, P/U new MWD Tool set inside Monel, P/U 2 nd Monel. TIH 20 jts HWDP, 6 jts 2 7/8 DP. Crew took lunch. TIH 144 jts 2 7/8 DP. P/U Power Swivel. P/U 5 jts w/ Power Swivel, Tag @ 5574'. Slide F/ 5574' T/ 5581', 1700psi 3.5 bbls a min @ 90 strokes, Mud 13.1wt 44 Vis 9.5 Ph, Crew Change @ 0600 hrs Safety Meeting fill out JSA (Making Connections, Hand Placement).
20	10/13/2012	10/14/2012	This is report is on the MCU O-16 Capital Injector Key rig #27 Continue to slide drill from 5574 to 5563. with 20 K down pump pressure at 1800 psi at 3 bbls a min. Recondition mud from 13.1 to 12.5 vist at 40 PH at 9. Returns of shale. Rotate from 5563. to 5595.. Survey @ 5545 Inc-4.8.Azimuth at 123.70 with 3 ft from well borr Slide from 5595 to 5618. Rotate from 5618 to 5627 with 6 ft a hour on penetrating rate.The piston was going out.on the rig pump call Dawn and made arrangement to have pump switched out. Shut down to swap out pumps Break circulation when well started to come around had a 30 bbls kick.Mud weight at 12.6 vist at 40 PH 9 circulate kick around for 1 hour.Survey at 5577 Inc at 8.8 Azimuth at 129.40 with 5.47 ft from well bore. Make - up jt 177 break circulation made 3 ft when pump liner were loose shut down for 1 hour to work on pump. Reestablish circulation and slide from 5641 to 5647 Rotate from 5647 to 5649. Rig pump down work on pump for 1 hour. Survey at 5608 Inc at 12.10 Azimuth at 1.30 Crew change at 6:00 safety meeting with crew topic was high pressure lines, keeping a eye on fluids, job task. Continue to slide from 5658
21	10/14/2012	10/15/2012	This is the report on the MCU O-16 Capital Injector Key rig #27 Continue to slide from 5658 to 5670 with 20 K down pump pressure at 1900 psi with 3 bbls min, Mud weight at 12.4 vist at 43,PH at 9.5 with good returns of shale. Shut down and work on rig pump. Establish circulation and rotate from 5670 to 5690. Survey at 5640 Inc at 14.9 Azimuth 123.0 with 15 ft from well bore. Pick-up jt 179 and slide from 5690 to 5700 rotate from 5700 to 5721. Survey at 5671 Inc at 15.7 Azimuth at 117. 22 ft from well bore. Slide from 5721 to 5727.Pick-up jt 180 and work on rig pump. Circulate well around had a small kick of 15 bbls circulate gas bubble around. Slide from 5727 to 5729 rotate from 5727 to 5753. Survey at 5703 Inc at 16.2 Azimuth at 110 30 ft from well bore. Pick-up jt 181 slide from 5761 to 5784 Survey at 5734 Azimuth at 103. 39 ft from well bore. Pick up jt 182 rotate from 5784 to 5815 Measured depth. Crew change at 6:00 safety meeting with rig contractors on location topic was hand placement, communication, tripping DP. Circulate well clean and TOH with directional tools.



## Daily Well Report

## Well Name: Mcelmo Cr O16

API Number 43037159690000	Section	Township	Range	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Summary
22	10/15/2012	10/16/2012	This is the report on MCU O-16 Capital Injector Key rig #27 Finish circulating well clean. Lay down 12 jts with power swivel no over pull or drag. Slide above the window. TOH with Directional tools and break them down and load..Crew ate lunch. Make up BHA with 6 1/4 bit, bit sub 20 jt HWDP x over 170 jt of AOH Drill pipe.Start picking up DP tag the top of whipstock at 5486 with 11 ft in on jt 176 slide on down to 5790. Crew change at 1800 safety meeting with contractors on location topic was hand placement,rigging -up swivel, watching out for pressure. Rig up swivel on jt 184. Circulate well around with 220 bbls of P/W. Haul mud back to mud plant.to be recondition. Well started to flow pressure starting at 50 psi climbing to 700 psi and level off at 1250 psi. Calculate mud weight at 12.9. Notify Terrance at mud plant for mud weight, Wait on mud to be delivered from mud plant.Had mud delivered and run across shakers. Circulate well around with 220 bbls of 13# mud Work jt up and down had good returns. Pick up jt 185 rotate on in and tag at 5815. Started to drill made 5 ft when we lose circulation pull up but was stuck. Work pipe to free up with out no success.Crew change at 6:00 Tail gate safety meeting with all contractors on location topic was staying off floor when pulling on pipe, job task, housekeeping. Pump F/W to try to free pipe.
23	10/16/2012	10/17/2012	Report for MCU O16 Capital Injector Key Rig 27, Pumped 180 bbls Fresh water down DP, Return mud to pit. Drill pipe freed up, L/D 10 jts DP w/ power swivel, BHA in casing. Call for trucks to bring Produce water and empty frac tanks, While waiting rig down flow line to gas buster and installed a blanking flange. 240 bbls P/W on loc, P/U 10 jts DP w/ swivel tag @ 5845'. Pumping Produce water @ 500psi 1.5 bbls a min, 70 RPM on DP, 10K to 15K on bit, Returns of gas, formation and fluid going out to frac tanks, 13' an hr rate of penetration, Crew change @ 1800 hrs Safety Meeting on Driving on lease roads, Gas monitors and wind direction, TD 5932' @ 2000hrs. Circ well clean for 1 hr. L/D 19 jts DP w/ Power Swivel, Hang swivel back in derrick. Pump 150 bbls 12# mud to kill well. TOH 150 jts DP. L/D 20 jts HWDP, Bit sub, Float and Bit, Tally & P/U, 4' perf sub w/ bull plug, 30 jts 2 7/8 YB tbg, Treating PKR, X/O. TIH 150 jts DP. P/U 7 jts DP, Set End of TBG @ 5924', 8' off bottom, PKR @ 4949'. Halliburton Acid crew on loc, Moving pipe racks to spot in trucks, Crew change @ 0600 hrs, Safety Meeting on Forklift operations, Ground guides, Driving on lease roads.
24	10/17/2012	10/18/2012	Report for MCU O-16 Capital Injector Key Rig 27, Spot in Acid trucks, Safety Meeting w/ everyone on loc 14 personnel Job hazards, Shower Usage, Communication, Rig up hard lines to DP, Lines from transfer truck & vac truck to pump truck, PSI test lines to 4800psi, Test good, Pump 5 bbls Fresh water head, 95.2 bbls 28% HCL Acid, PSI @ 2211psi 2 bbls a min, PSI slowly dropped down to 1080psi, Switch to displacement 87 bbls Fresh water, 60 bbls of over displacement, ISIP @ 1270psi, 5 min 568psi, 10 min 361psi, 15 min 350psi, Shut well @ 0945, Rig down hard lines and hoses, Release Acid crew. Wait 2 hours for Acid to soak, While waiting crew change out packing on power swivel, Rig hard lines from DP to Choke manifold. After 2 hr, DP PSI @ 40psi, Open well to frac tank bleed off PSI flow back well, Flowed 7 bbls fluid DP dead. Release PKR, DP flowing fluid, Mud U tubing pushing Fresh water up DP, Bleed off DP to frac tank. Rig down TIW and Pumping T, L/D 1 jt DP. TOH 156 jts DP. L/D Treating PKR, 30 jts 2 7/8 TBG, 4' perf sub w/ bull plug. Crew change @ 1800 hrs Safety Meeting on Fork lift operations, Hand signals, HT on loc to take tbg, Loaded 30 jts tbg onto trailer, Take back to Pipe yard, Move 6 jts DC from trailer onto pipe racks and Tally. Wait 1.5 hrs on Dash hotshot to bring out Mills and Wash pipe. Unload Weatherford equipment off Dash trailer, Tally and P/U Bit, Casing Scraper, Watermelon Mill, Bit Sub, X/O, Float. TIH 156 jts DP. P/U 19 jts DP. Work casing scraper & mills from 5480' to 5380'. L/D 5 jts DP. TOH 170 jts DP. L/D Float, X/O, Bit Sub, Watermelon Mill, Casing Scraper and Bit, Tally & P/U Shoe, 4 jts Wash Pipe, Canifield Bushing, Float. Crew change @ 0600 hrs Safety Meeting on 100% Tie off, DP Handling, Tong Operations.
25	10/18/2012	10/19/2012	Report for MCU O-16 Capital Injector Key Rig 27, TIH 170 jts DP. Work wash over pipe F/ 5380' T/ 5480' prep for Metal Skins. TOH 170 jts DP. L/D Float sub, X/O, Canifield Bushing, 4 jts Wash Over Pipe, Shoe. TIH Open ended 50 jts Kill string, M/U TIW w/ Pumping T, Shut in well. Wait on Metal Skins for 8 hrs, Crew change @ 1800 hrs Safety Meeting on Housekeeping, Maintenance. Spot in Dash trailer w/ Metal Skins,Spot Casing Crew trailer and truck. TOH 50 jts Kill string. P/U Cone, GS Spear Receiver, MCL Anchor Joint, MCL Standard Joint, MCL Isolation Joint, MCL Top Joint, Telescoping Liner Stop, Split Bushing, GS Spear, Debris Sub, Inner String (3 1/2" Sub), X/O, Ext Bar, Profile Sub, Sucker Rod Box, HOMCO Setting Tool, X/O, 2 7/8 L-80 tbg, X/O, Bumper Sub, Slide Valve, X/O, 2 7/8 L-80 tbg, Sub. TIH 100 jts DP. Crew Change @ 0600 hrs Safety Meeting on Tripping DP, Proper Back Up.



## Daily Well Report

## Well Name: Mcelmo Cr O16

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Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 12/1/1965 00:00	Rig Release Date/Time	

Report Number	Start Date	End Date	Summary
26	10/19/2012	10/20/2012	This is the report on MCU O-16 Capital Injector Key rig # 27 Finish TIH with BHA to 5240. Pick-up jt 167 and run on in 20 ft to 5260. Hold safety meeting with all personally on location topic high pressure lines, communication, job task. Rig up pump truck and swivel Pull up and jack skins pull 110 K set metal skins the bottom of skin is at 5455 the top is at 5380. (Expanded Casing OD at 6.17, ID at 5.46) Drift 5.458, Internal Burst at 3,390 psi. Rig down swivel and pump truck. TOH with setting tools. Break down tools and load to be haul back to Farmington. Crew change at 1800 safety meeting with contractors on location topic hand placement, communication, job task. Make up BHA with Arrow set 1-X packer Block extended OD of 5.76, Block Collapsed OD of 5.387, Drifted at 2.370 Seal Mandrel. with on and off tool with 4 ft perf sub. TIH to top of liner at 5380 slide on in to 54441 and set. Circulate well around with 230 bbls of F/W. Haul mud back to mud plant. TOH laying down 115 jts and transfer to trailer. TOH with 1800 ft of DP. Break down perf sub and on and off tool. Make -up BHA with 7' RBP. TIH and set at 1800 ft. Pressure test plug to 1200 psi (Good Test). Dump sand on top of plug. Start out with DP. Crew change at 6:00 safety meeting with contractors on location topic was tripping DP, job task. Finish TOH
27	10/20/2012	10/21/2012	This is the report on the MCU O-16 Capital Injector Key rig # 27. Finish TOH with BHA. Waited on wireline truck. Spot in wireline truck. Hold safety meeting with rig crew topic was wireline operations, Pick-up tool and run a short strip from 1794 to surface with MTT to identify casing for metal skins. Send all log to Jim Styler. Pick up perf gun to shoot squeeze holes at 1680 with 4 shot per ft over 2 foot interval. Come out and rig down wireline Pump 2 bbls and pressure went up to 500 psi started to circulate well around through braden head pumping at 2 bbls a min pressure drop to 150 psi. Had good circulation when it started to circulate around surface casing. Novity Jim also Donnie about the situation. BJ on location with 500 sacks of cement. Had treater turn around to get lost circulation material. TIH and set cement retainer at 1616. Hook up BJ. Hold safety meeting with 16 personel on location topic was high pressure lines, job task, pressure test hard lines to 3500 psi. Stage 20 bbls of water with LCM at 670 psi. at 4 bbls a min. Stage 122 bbls of cement at 14.6 ppg. at 700 psi with 4 bbls a min. Stage 6.4 water displacement. at 920 psi at 4 bbls a min. shut down sting out and lay down 1 jt. Reverse 1 bbl cement out Total bbls pump was 163.4 with 79.21 of cement. Type 3 cement yield at 1.37 and water GPS of 6.64. Lay down 5 jts and TOH with BHA. Break down tools Drain all equipment and secure well. Well to be shut in for 24 hours.
28	10/21/2012	10/22/2012	This is on MCU O-16 Capital Injector Key rig # 27 No rig activity waiting on cement.. Crew on location at 18:00 hour safety meeting with all contractors on location topic was Picking-up collars, suspended loads, communication, Rig crew service the rig work on lights on derrick sevice rig pump also power swivel. Set pipe rack back in place and transfer 6 Drill Collars to racks and tally. Make-up BHA with 6 1/4 4 blade junk mill plus 6 collars x over from lf back to AOH. TIH and tag at 1588 mill out cement to 1605 circulate clean. Pick up jt # 46 esblish circulating and mill out to 1616. tag retainer and start mill with 3K down with pump pressure at 4.50 psi at 2 bbls a min with good returns of metal shaving. Crew change at 6:00 safety meeting with rig crew topic was housekeeping, job task. Cont to mill out
29	10/22/2012	10/23/2012	Report for MCU O-16 Capital Injector Key Rig 27, Drill out Retainer F/ 1616' T/ 1619', Drill out Cement F/ 1619' T/ 1710', Pumping 2.5 bbls a min @ 500psi, 60 RPM on DP, 5K 10K on the Bit, Returns of metal shavings & cement. Circ well bore clean for 30 min. PSI test casing to 1000psi for 10 min, Lost 100psi in 8 min, PSI back up to 1000psi, Same results, Release PSI. Hang swivel back in derrick. TOH 50 jts DP. L/D 6 jts 3 1/2 DC, Bit sub, 4 Blade junk Mill, Tally and P/U PKR. TIH 10 jts DP, Crew change @ 1800 hrs Safety Meeting on 100% tie off, Tong hazards, Continue to TIH 42 jts DP. Set PKR @ 1651', PSI Test casing F/ PKR T/ Surface to 1080psi for 15 min test good, Test F/ PKR T/ RBP to 1000psi, Lost 500psi in 1 min, Release PKR TIH 2 jts DP, Set PKR @ 1715', Test Casing F/ PKR T/ RPB to 1000psi for 15 min, Test good, Test F/ PKR T/ Surface to 1000psi, Lost 500psi in 1min, Release PKR. TOH 52 jts DP. L/D PKR, Tally and P/U X/O, Magnet. TIH 52 jts DP, P/U 1 jt tag top of sand w/ Magnet. TOH 53 jts, Magnet full of metal pieces, Clean off Magnet. TIH 53 jts DP, Tag sand w/ Magnet. TOH 53 jts DP, Magnet 3/4 full of metal pieces. Take samples off Magnet, L/D Magnet, X/O, P/U RBP Retrieving tool. TIH 52 jts DP. P/U Power Swivel w/ jt 53. Tag Sand @ 1794', Reverse Circ 6' of sand off RBP, Latch onto RBP & Release. Hang Swivel back in derrick. TOH 22 jts DP. Crew change @ 0600 hrs Safety Meeting on Hand Placement, Communication.



## Daily Well Report

## Well Name: Mcelmo Cr O16

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Report Number	Start Date	End Date	Summary
30	10/23/2012	10/24/2012	Report for MCU O-16 Capital Injector Key Rig 27, TOH 30 jts DP. L/D RBP & Retrieving tool, Tally and Pick up 6 1/4 Button Bit, Scraper, 6.3935 Watermelon Mill, X/O. Attempt to TIH, Tagging 46' below surface, Work DP, Turning pipe w/ tongs, Still wont go down, Call and notify Jim & Wilson, P/U Power Swivel, Gently tag tight spot while rotating, Pipe torque ing up, Wont go down, Hang Swivel back, Pull 2 jts DP, L/D 6.3935 Mill, P/U 6.3035 Watermelon Mill, TIH 2 jts, 6.3035 Mill go through tight spot no problem, Pull 2 jts DP, L/D 6.3035 Mill, P/U 6.3935 Mill, TIH 1 jt DP, P/U Power swivel w/ 2nd jt, 6.3935 Mill tagging @ tight spot, Break Circ w/ fresh water, Try to work Mill through tight spot while rotating, No success, L/D 1 jt w/ Swivel, Hang swivel back, Pull 1 jt DP, Change out Watermelon Mill 6.3935 to 6.3035. TIH 52 jts DP. P/U Power swivel. Break Circ w/ fresh water, Work BHA F/ 1642' T/ 1737', Made 3 connections. Hang Swivel back in derrick. L/D 5 jts DP. TOH 50 jts DP. Crew change @ 1800 hrs Safety Meeting on Winch operations, Communication, Hand placement. Pick and Make up X/O, Slide Valve, 2 3/8 Bumper Sub, 2 jts 2 7/8 L-80 TBG, Stand back in derrick, Rig up Casing Crew, M/U GS Spear Receiver, Anchor Joint, Standard Joint, Isolation Joint, Top Joint, Telescoping Liner Stop, Rig down Casing Crew, M/U Split Bushing, GS Spear, Debris Sub, Inner String 3 1/2 Sub, X/O, Ext Bars, Profile Sub, Sucker Rod Box, HOMCO Setting Tool, Hydraulic Hold Down, Run assembly inside of Skin, M/U to 2 7/8 assembly. TIH 50 jts DP. Rig up Wilson Service pump, Load tbg w/ fresh water, PSI up to 3500psi, Engage Jack, PSI up to 4500psi, fully engage jack, Repeat process 26 times, Set Metal Skin Top of Skin @ 1627' Bottom @ 1730', ID of Skin 5.678, Drift 5.553. Rig down Wilson Services, Crew change @ 0600 hrs Safety Meeting on Laying Down DP, PPE.
31	10/24/2012	10/25/2012	Report for MCU O-16 Capital Injector Key Rig 27, Rig down pump lines and equipment, Rig up pumping T to DP. PSI test casing to 1000psi for 30 min, Test good no lost, Release PSI, Rig down pumping T. L/D 50 jts DP, Weatherford Skin setting tool. Waited 1.5 hr for Dash to move out Trailer make room to move DP. Move DP from racks to trailer, Spot in tbg trailer move tbg from trailer to racks and tally. Too windy to P/U tbg, Wait on Weather for 5.5 hrs, Crew change @ 1800 hrs Safety Meeting on Pick up TBG, Tong Operations, Fork lift Safety, Wind clam down enough to start picking up tbg @ 1930 hrs. Pick and make up On & Off tool w/ Nickel coated nipple, 106 jts 2 7/8 TK tbg, 1 bad jt bent. Crew took lunch, Moved more tbg to racks and tally. P/U 65 jts 2 7/8 tbg, Total of 171 jts. Tag PKR @ 5434. Pick up 2' circ 30 bbls packer fluid clean top of PKR, Latch onto PKR, Space out for pub jts, Release off PKR, Start pumping packer fluid, Crew change @ 0600 hrs Safety Meeting on Pumping Operations, PSI on lines, Ground guides for vac trucks.
32	10/25/2012	10/26/2012	Report for MCU O-16 Capital Injector Key Rig 27, Circ 190 bbls PKR fluid, Return fresh water to lay down tanks. L/D 1 jt TBG, P/U 10' Pub jt, 1 jt w/ SS Seating Nipple and TBG Hanger, Land hanger 18K Tension on PKR. PSI test casing & Hanger to 1000psi for 30 min, Test good, Release PSI, While testing crew move pipe racks, catwalk, racking board and skid. Rig down power swivel, TBG tongs, tools, hand rails, steps and rig floor. Rig down accumulator hoses from BOP, Unsecure bolts, Use fork lift to remove BOP and set on skid. WSI on loc w/ upper tree, Install Seal Sub, P/U Tree set and tighten bolts, Rig up pump to test void, Void won't PSI up, Remove tree and check Seal Sub, Both rubbers were cut, Replace Rubber, P/U Tree set and tighten bolts, Rig up pump, Test void to 2000psi for 10 min, Test good, R/D equipment, Release WSI. Tefteller on loc, Spot in truck, Rig up lubricator w/ Spear, Test to 2000psi for 10 min, Test good, PSI tbg to 500psi RIH puncture plug PSI dropped down to 250 psi, ROH L/D Spear P/U Retrieving tool, RIH retrieve 1.81 F profile plug @ 5417' Slick line depth, ROH L/D plug, M/U 1.50 Bailer, RIH tag @ 5895' Take Sample of mud and fluid, ROH put sample in bottle, Rig down Tefteller and release. Start Rigging down for rig move tomorrow morning. Crew change @ 1800 hrs Safety Meeting on Fork lift operations, Hand signals, Team work, Conitune to rig down equipment.
33	10/26/2012	10/26/2012	Disposed of cement and Mud
34	10/27/2012	10/27/2012	Disposed of Mud and Cement
35	10/29/2012	10/29/2012	Disposed of Mud and Cement
36	10/30/2012	10/30/2012	Disposed of Mud and Cement
37	10/31/2012	10/31/2012	Disposed of drilling Mud

**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**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER gas injection

b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**1420603372**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Navajo**

7. UNIT or CA AGREEMENT NAME  
**McElmo Creek**

8. WELL NAME and NUMBER:  
**McElmo Crk O-16**

2. NAME OF OPERATOR:  
**Resolute Natural Resources**

9. API NUMBER:  
**4303715969**

3. ADDRESS OF OPERATOR: **1675 Broadway, Ste 195** CITY **Denver** STATE **CO** ZIP **80202** PHONE NUMBER: **(303) 573-4886**

10 FIELD AND POOL, OR WLDGCAT  
**Greater Aneth**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **610 FSL, 1957 FWL**  
  
AT TOP PRODUCING INTERVAL REPORTED BELOW: **610 FSL, 1957 FWL**  
  
AT TOTAL DEPTH: **610 FSL, 1957 FWL**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SESW 5 41S 25E S**

12. COUNTY **San Juan** 13. STATE **UTAH**

14. DATE SPUNDED: **9/30/2012** 15. DATE T.D. REACHED: **10/16/2012** 16. DATE COMPLETED: **11/7/2012** ABANDONED  READY TO PRODUCE  17. ELEVATIONS (DF, RKB, RT, GL): **4925 GL**

18. TOTAL DEPTH: MD **5,932** TVD **5,932** 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  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (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
12.25	10.75 H-40	32.75	0	1,235		B 800		0 CIR	
7.875	7 J-55	20	0	5,950		B 900		3300 TS	

**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		5,434						

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Desert Creek IA	5,720				5,668 5,686			Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/>
(B) Desert Creek IIA	5,778				5,720 5,783			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)					5,787 5,900			Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

**27. PERFORATION RECORD**

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
4949 to TD open hole	5 bbls FW head, 95.2 bbls 28% HCl acid, 87 bbls FW flush

**RECEIVED**

**JAN 07 2012**

Div. of Oil, Gas & Mining

**29. ENCLOSED ATTACHMENTS:**

- ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

**30. WELL STATUS:**

**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)
Upper Ismay	5,573			Chimney Rock Shale	5,911
Lower Ismay	5,642				
Gothic Shale	5,707				
Desert Creek IA	5,720				
Desert Creek IB	5,746				
Desert Creek IC	5,762				
Desert Creek IIA	5,778				
Desert Creek IIB	5,797				
Desert Creek IIC	5,821				
Desert Creek III	5,883				

35. ADDITIONAL REMARKS (include plugging procedure)

Well tied in to line on 11-7-12, MIT report attached, done 10-29-12, SICP 0 psi, SITP 1020 psi.

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 12/27/2012

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

# RESOLUTE

NATURAL RESOURCES

## Daily Well Report

Well Name: Mcelmo Cr O16

API Number 43037159690000	Section 5	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft) 4,925.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Well Spud Date/Time 8/21/1957 00:00	Rig Release Date/Time		

Job Category MIT	Primary Job Type Mechanical Integrity Test	Secondary Job Type	Working Interest (%)
Start Date 10/29/2012	End Date 10/29/2012	AFE Number	

Objective

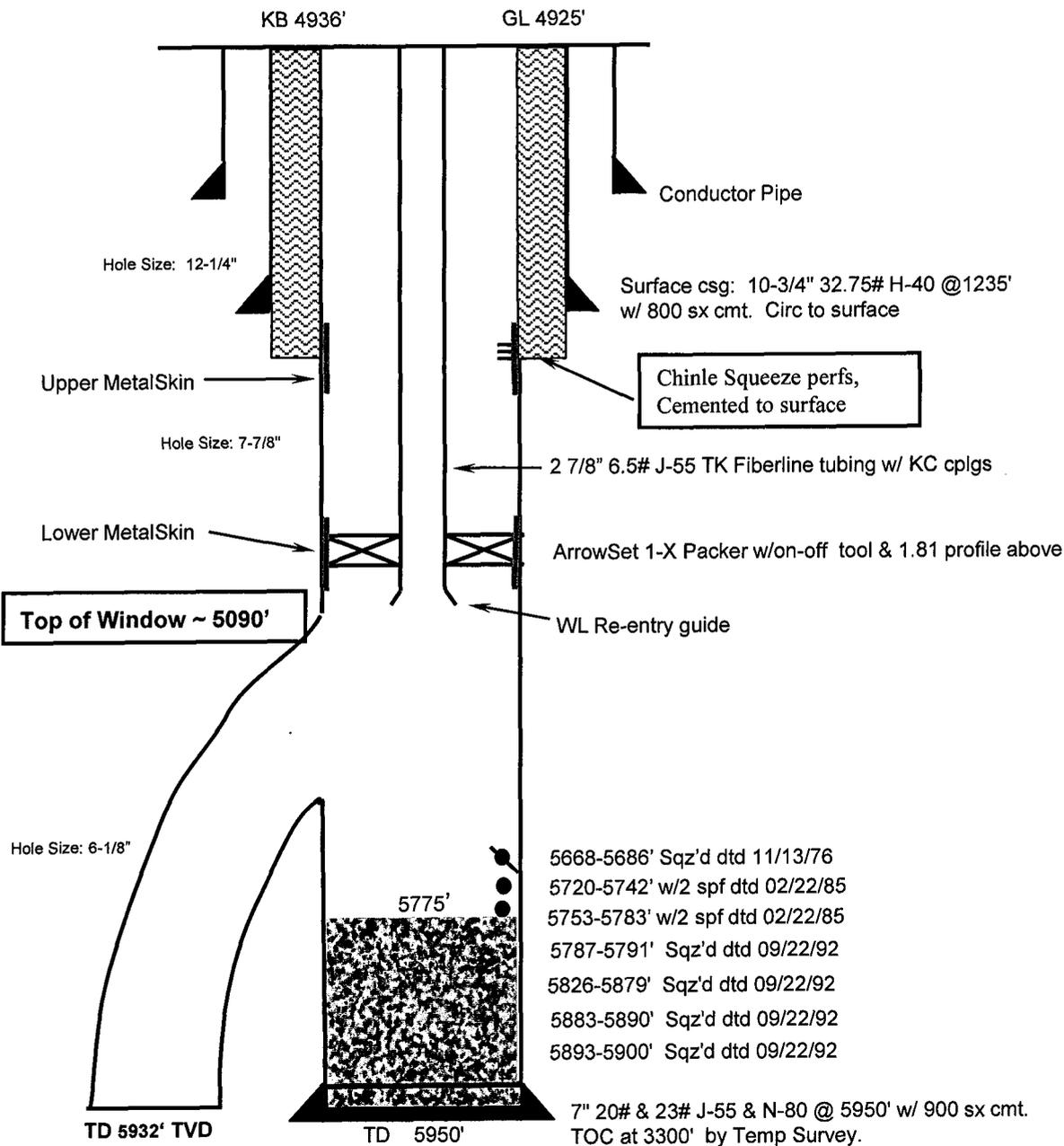
Contractor Wilson Service	Rig Number	Rig Type	Rig Start Date 10/29/2012	Rig Release Date 10/29/2012
------------------------------	------------	----------	------------------------------	--------------------------------

Report Number	Start Date	End Date	Summary
1	10/29/2012	10/29/2012	Road Wilson Service Press truck to loc. JSA. Safety mtg. (High pressure, Monitors). SITP 1,020 psig. SICP 0 psig. Have JR Construction Hookup to flowback tank. Flowback CO2 to flowback tank. Drpd press fr 1,020 on tbg to 450 psig. Ppd 40 gallons methanol dwn csg & pressure up to 1,040 psig. Chart well for 30 min. O psig loss on csg & 50 psig gain on tbg. Passed MIT. Witnessed by Jean Bia of the NNEPA RDMO Wilson Services. Left well with JR Construction unloading well to flowback tank.

**McELMO CREEK UNIT #O-16**  
**GREATER ANETH FIELD**  
 610' FSL & 1957' FWL  
 SEC 5-T41S-R25E  
 SAN JUAN COUNTY, UTAH  
 API 43-037-15969  
 PRISM 0000345

**INJECTOR**

**Attachment 2:**  
**Wellbore Deepened to**  
**DCIIC,**  
**Open Hole Completion**



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

RECEIVED  
OCT 10 2012

C  
FORM 6

DIV. OF OIL, GAS & MINING

ENTITY ACTION FORM

Operator: Resolute Natural Resources Operator Account Number: N 2700  
Address: 1675 Broadway, Ste 1950  
city Denver  
state CO zip 80202 Phone Number: (303) 573-4886

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4303730289	McElmo Creek O-17		NENW	8	41S	25E	San Juan
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
E			9/9/2012				
Comments: <u>deepened existing wellbore to recomplete in DC-IIC formation</u> <i>Duplicate</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4303730315	McElmo Creek M-15		NESE	6	41S	25E	San Juan
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
E			9/18/2012				
Comments: <u>deepened existing wellbore to recomplete in DC-IIC formation</u> <i>Duplicate</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4303715969	McElmo Creek O-16		SESW	5	41S	25E	San Juan
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
E	<u>99990</u>	<u>5980</u>	10/4/2012		<u>1-9-2013</u>		
Comments: <u>deepening existing wellbore to recomplete in DC-IIC formation</u> <u>DSCR</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Sherry Glass

Name (Please Print)

*Sherry Glass*  
Signature

Sr. Regulatory Technician

Title

10/5/2012

Date

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-372
---	---

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO  <b>7. UNIT or CA AGREEMENT NAME:</b> MCELMO CREEK
--	--

<b>1. TYPE OF WELL</b> Water Injection Well	<b>8. WELL NAME and NUMBER:</b> NAVAJO C-3 (MCELMO O-16)
--	---

<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES	<b>9. API NUMBER:</b> 43037159690000
---	---

<b>3. ADDRESS OF OPERATOR:</b> 1675 Boradway Ste 1950 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 534-4600 Ext	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
--	--	---

<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S	<b>COUNTY:</b> SAN JUAN  <b>STATE:</b> UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/17/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input checked="" 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 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 Natural Resources respectfully submits this sundry as notice of acidizing and clean out of the above wellbore. Attached are the procedures and schematic

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 June 17, 2014**

Date: \_\_\_\_\_

By: Dark Ount

<b>NAME (PLEASE PRINT)</b> Erin Joseph	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/17/2014	

# RESOLUTE

## NATURAL RESOURCES

### MCU O-16 Coil Tubing Clean Out & Acidize

#### Procedure

1. LOTO Injection Lines at wellhead, on main isolation valves, and CP Panel.
2. MI spot CTU, pump unit, rig pit, install hard line and choke manifold.
3. RU CTU with 1.25 inch coil, 1.25 Vortec washtool.
4. Test lubricator and BOP's to 4500 psig. **NOTE: No tubing detail was recorded in WellView. Minimum ID @ 1.78 'R 'profile @ ~5442' KB' (1.72 no-go).**
5. RIH with CTU, establish circulation; clean out fill to PBD at 5932' KB;  
Take solids samples for analysis. After reaching PBD, circ well bore clean.
6. Load coil with 7 drums xylene or alternate solvent; Prepare to acidize behind the solvent with 4500 gal inhibited 20% HCl.
7. Spot coil at btm ~5930' & begin solvent at .5 bpm, moving CT up to 5570' (top of Ismay), then back down to 5930' while pumping solvent, then shut down for 30 min soak when acid is at the tip of the coil, & coil at btm perf. Coil speed of 39.3 fpm required at 0.5 bpm.
8. Pump the acid while making two trips up and down 5930'-5570' w/the coil.
9. PU to ~5500' and overdisplace acid past PBD at 5932' by 25 bbls fresh water.
10. POOH with coil tubing.
11. RD CTU and stimulation equipment. Release equipment.
12. Backflow lateral line for cleanup.
13. Advise Pierce Benally (435) 619-7234 the well is ready to return to injection.

# McELMO CREEK UNIT #O-16

GREATER ANETH FIELD

660' FSL & 1980' FWL

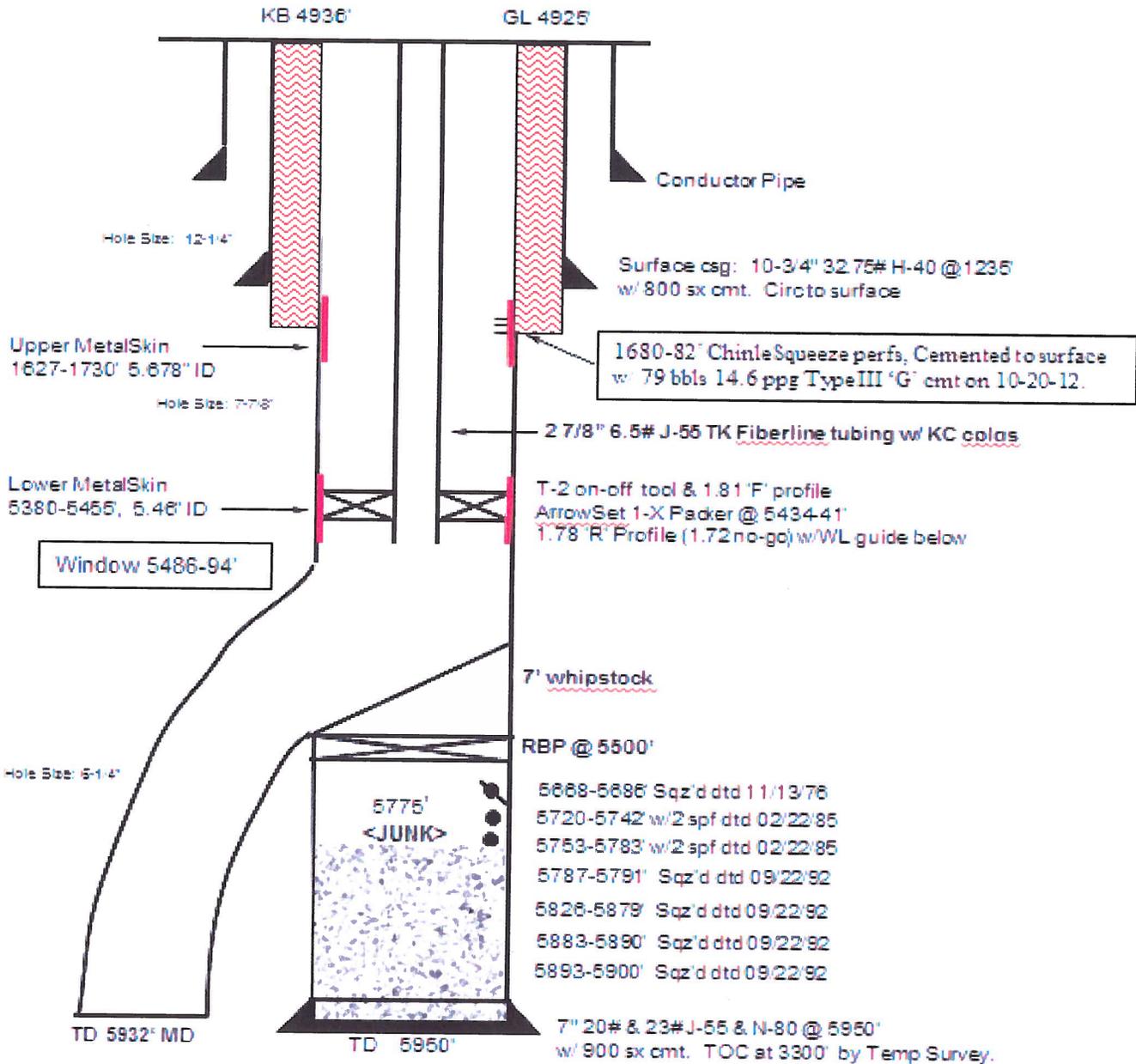
SEC 5-T41S-R25E

SAN JUAN COUNTY, UTAH

API 43-037-15969

PRISM 0000345

INJECTOR



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-372
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> MCELMO CREEK
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES		<b>8. WELL NAME and NUMBER:</b> NAVAJO C-3 (MCELMO O-16)
<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535		<b>9. API NUMBER:</b> 43037159690000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
		<b>COUNTY:</b> SAN JUAN
		<b>STATE:</b> 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"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/19/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<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"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Resolute Natural Resources is submitting this sundry as notice that the acidizing and cleanout of the above wellbore was completed on 6/19/2014 according to the previously submitted procedures.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**  
July 22, 2014

<b>NAME (PLEASE PRINT)</b> Erin Joseph	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/1/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-372
---	---

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<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	<b>PHONE NUMBER:</b> 303 534-4600 Ext	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S	<b>COUNTY:</b> SAN JUAN  <b>STATE:</b> UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/18/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input checked="" 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 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 Natural Resources respectfully submits this sundry as notice of acid treatment on the above well. Attached are the procedures and schematic

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

Date: ~~November 13, 2014~~  
 By: Dark Oust

<b>NAME (PLEASE PRINT)</b> Erin Joseph	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/10/2014	

# RESOLUTE

## NATURAL RESOURCES

### MCU O-16 Injection Well Bullhead Acid Treatment

#### Procedure

Horsley Witten: **Not Applicable**

1. Check crown valve & manifold wing valve for integrity to ensure pump truck can rig up to well.
2. MIRU frac tank, manifold & hard line for flowback. RU ABC shower trailer.
3. Backflow the well for ~400 bbls or until significant gas appears, then shut in.
4. RU pumping equipment to wellhead & PT lines. Record TP, CP, Bradenhead P (BHP).
5. Pump 400 gal xylene, 2500 gal inhibited 15% HCl, 51 bbls fresh water displacement. Stop for 30 min soak after 42.6 bbls of acid are pumped behind the xylene. **Pump the remainder of the treatment at maximum rate possible, staying under 3000 psi TP.** Monitor CP and BHP while pumping.
6. Rig down pumping equipment.
7. Allow 2 hours acid soak time prior to putting back on injection.
8. Open the well to injection at 2000 bwipd; Record the initial injection rate, tubing pressure, and choke.

# McELMO CREEK UNIT #O-16

GREATER ANETH FIELD

INJECTOR

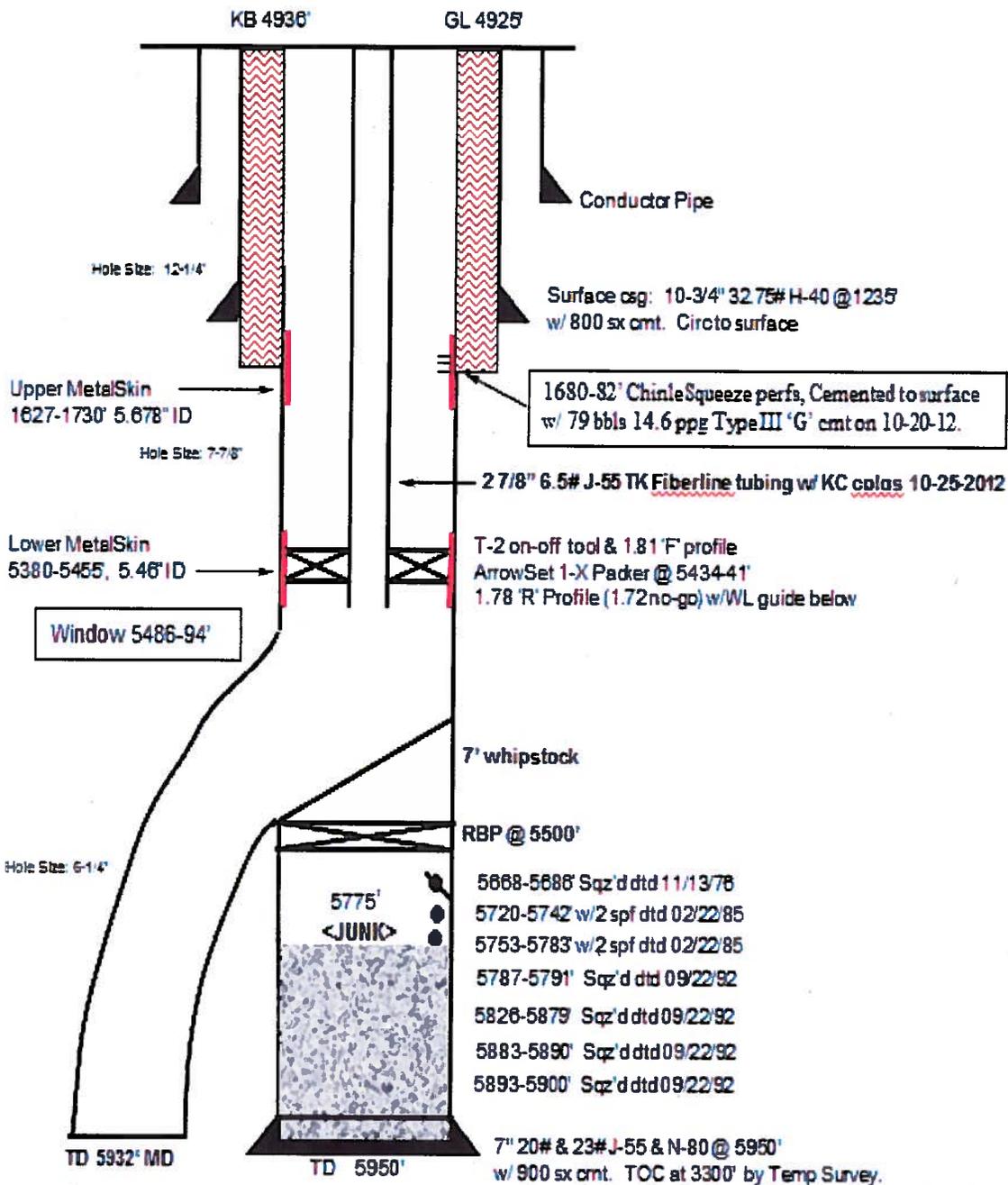
660' FSL & 1980' FWL

SEC 5-T41S-R25E

SAN JUAN COUNTY, UTAH

API 43-037-15969

PRISM 0000345



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-372
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES		<b>7. UNIT or CA AGREEMENT NAME:</b> MCELMO CREEK
<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535		<b>8. WELL NAME and NUMBER:</b> NAVAJO C-3 (MCELMO O-16)
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S		<b>9. API NUMBER:</b> 43037159690000
<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH		<b>COUNTY:</b> SAN JUAN
<b>STATE:</b> UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/17/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text"/>	
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 acid treatment on the above well was completed on 11/17/2014 totals 400 gals xylene, 2500 gals 20% HCL, and 2142 gals FW		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          February 20, 2015</b>		
<b>NAME (PLEASE PRINT)</b> Erin Joseph	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/18/2015	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-372	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
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.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO	
<b>7. UNIT or CA AGREEMENT NAME:</b> MCELMO CREEK	
<b>1. TYPE OF WELL</b> Water Injection Well	
<b>8. WELL NAME and NUMBER:</b> NAVAJO C-3 (MCELMO O-16)	
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES	
<b>9. API NUMBER:</b> 43037159690000	
<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	
<b>PHONE NUMBER:</b> 303 534-4600 Ext	
<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S	
<b>COUNTY:</b> SAN JUAN	
<b>STATE:</b> 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"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/17/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<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"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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 that the acid treatment on the above well was completed on 11/17/2014. Totals are 400 gas xylene, 2500 gals 20% HCL and 2142 gals FW

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 February 20, 2015**

<b>NAME (PLEASE PRINT)</b> Erin Joseph	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/19/2015	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-372
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<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO  <b>7. UNIT or CA AGREEMENT NAME:</b> MCELMO CREEK
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<b>1. TYPE OF WELL</b> Water Injection Well	<b>8. WELL NAME and NUMBER:</b> NAVAJO C-3 (MCELMO O-16)
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<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES	<b>9. API NUMBER:</b> 43037159690000
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<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	<b>PHONE NUMBER:</b> 303 534-4600 Ext	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S	<b>COUNTY:</b> SAN JUAN  <b>STATE:</b> UTAH
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TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>1/18/2017</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> 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 type="checkbox"/> OTHER	<input checked="" 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 move a work over rig onto the referenced well for casing/tubing repairs to restore injection. The proposed procedure and well schematic are attached.

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

Date: January 17, 2017  
 By: *Derek Duff*

<b>NAME (PLEASE PRINT)</b> Sherry Glass	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/17/2017	

# RESOLUTE

## NATURAL RESOURCES

MCU O-16 UIC repair

### Recommendation

The production engineer and operations staff at McElmo Creek Unit recommend moving a workover rig onto **MCU O-16** to make UIC repairs. The workover is expected to restore injection of 1000 BWPD and support 45 BOPD.

### Job Scope

Job Scope includes: MIRU. Pull tubing and LD. RIH with new tubing. Circ pkr fluid. J-on pkr. MIT.  
(Acid planned? N; Change of tubing size? /N; Paraffin expected? /N)

### Work History

**12/14/2016** Spot Tefteller & WellCheck.( lateral tag out on 12-8-16 ). Chk pres, 900 # on tbg, 2250 # on csg, 0 # on surface csg. N/u wire lines, RIH w/1.80 GR to 5433', POOH, 800 psi on tbg. 2250 psi on csg. P/u 1.78 plug, RIH & set plug @ 5433.', pres tbg up to 1500 psi, holding., bled pres off. POOH. 2250 psi on csg. Bled tbg & csg dn to 0 psi.  
NOTE: Left 1.78 plug in place. **1/3/2017** - tbg was at 50 and csg at 150. **1/9/2017**.-tbg was at 50 and csg at 250.

### Procedure

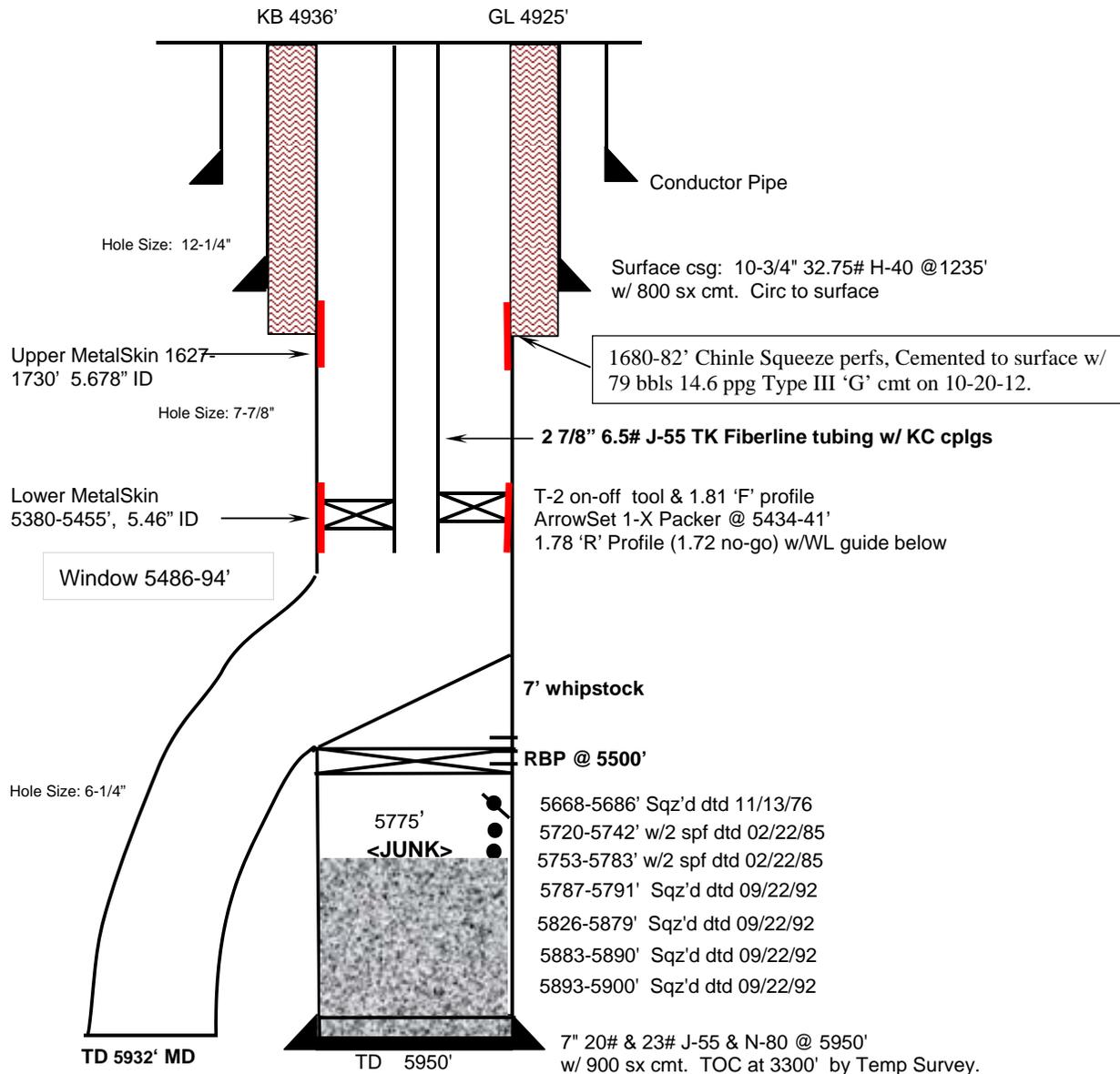
**Horsley Witten: Yes, Work has been completed**

1. Rebuild location, if necessary.
2. MIRU WSU, LOTO. Plug in place. Check tbg and csg pressures.
3. ND WH & NU BOP's. J-off Arrowset 1-X packer. Test BOPE.
4. POOH w/2-7/8 TK FL tbg , LD. Tbg run 10/15/2012
5. RIH w new injection tubing. Use 2-7/8" TK FL2 tubing. Circulate pkr fluid. J-on to packer.
6. Perform mock MIT. Land tubing.
7. ND BOP, NU WH. Test void to 2500 psi.
8. MIRU slickline unit. Test lubricator to 1000 psi.
9. RIH retrieve plug. RDMO slickline unit.
10. Backflow the lateral line until clean. RDMO WSU.
11. Schedule witnessed MIT w/NNEPA.
12. Notify Area Injection Supervisor Pierce Benally (435) 444-9957 that well is ready for reconnect & return to injection.

# McELMO CREEK UNIT #O-16

GREATER ANETH FIELD  
 660' FSL & 1980' FWL  
 SEC 5-T41S-R25E  
 SAN JUAN COUNTY, UTAH  
 API 43-037-15969

INJECTOR



GLM 11/11/2002

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-372
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<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO  <b>7.UNIT or CA AGREEMENT NAME:</b> MCELMO CREEK
--	---

<b>1. TYPE OF WELL</b> Water Injection Well	<b>8. WELL NAME and NUMBER:</b> NAVAJO C-3 (MCELMO O-16)
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<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES	<b>9. API NUMBER:</b> 43037159690000
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<b>3. ADDRESS OF OPERATOR:</b> 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535	<b>PHONE NUMBER:</b> 303 534-4600 Ext	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0610 FSL 1957 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 05 Township: 41.0S Range: 25.0E Meridian: S	<b>COUNTY:</b> SAN JUAN  <b>STATE:</b> UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/20/2017  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> 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 style="width: 100px;" 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 an UIC repair on the above well. Attached are the procedures and schematic

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 January 24, 2017**

<b>NAME (PLEASE PRINT)</b> Erin Joseph	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/16/2017	

**Procedure**

**Horsley Witten: Yes, Work has been completed**

1. Rebuild location, if necessary.
2. MIRU WSU, LOTO. Plug in place. Check tbg and csg pressures.
3. ND WH & NU BOP's. J-off Arrowset 1-X packer. Test BOPE.
4. POOH w/2-7/8 TK FL tbg , LD. Tbg run 10/15/2012
5. RIH w new injection tubing. Use 2-7/8" TK FL2 tubing. Circulate pkr fluid. J-on to packer.
6. Perform mock MIT. Land tubing.
7. ND BOP, NU WH. Test void to 2500 psi.
8. MIRU slickline unit. Test lubricator to 1000 psi.
9. RIH retrieve plug. RDMO slickline unit.
10. Backflow the lateral line until clean. RDMO WSU.
11. Schedule witnessed MIT w/NNEPA.
12. Notify Area Injection Supervisor Pierce Benally (435) 444-9957 that well is ready for reconnect & return to injection.

# McELMO CREEK UNIT #O-16

GREATER ANETH FIELD

660' FSL & 1980' FWL

SEC 5-T41S-R25E

SAN JUAN COUNTY, UTAH

API 43-037-15969

INJECTOR

