

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



Mesquite SWD

ABOVE THIS LINE FOR DIVISION USE ONLY

RECEIVED OGD
Cagney 28 Federal Com #1
2011 MAR -4 P 12:55

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

24
30-05-35479

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] TYPE OF APPLICATION - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____

Eddy

- [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Offset Operators, Leaseholders or Surface Owner
- [C] ☒ Application is One Which Requires Published Legal Notice
- [D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Kay Havenor	<i>Kay C Havenor</i>	Agent	3/2/2011
Print or Type Name	Signature	Title	Date

KHavenor@georesources.com
e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No

II. OPERATOR: Mesquite SWD, Inc.

ADDRESS: P.O. Box 1479 Carlsbad, NM 88221

CONTACT PARTY: Kay Havenor PHONE: 575-622-0283

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes X No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Kay Havenor TITLE: Agent

SIGNATURE: Kay Havenor DATE: 2/28/2011

E-MAIL ADDRESS: KHavenor@georesources.com 575-626-4518

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

30-015-35749

API 30-015-28960

2

0

OPERATOR: Mesquite SWD, Inc.

WELL NAME & NUMBER: Cagney 28 Federal Com #1

WELL LOCATION: 660' FSL & 810' FEL

FOOTAGE LOCATION

P UNIT LETTER 28 SECTION 17S TOWNSHIP 30E RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2" Casing Size: 11-3/4"

Cemented with: 460 sx. or ft³

Top of Cement: Surface Method Determined: Circulated

See attached well diagram

Intermediate Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"

Cemented with: 824 sx. or ft³

Top of Cement: Surf Method Determined: Circ w/1"

Production Casing

Hole Size: 8-3/4" Casing Size: 7"

Cemented with: 1600 sx. or ft³

Top of Cement: approx 3500' Method Determined:

Total Depth: 11756'

Injection Interval

Perforations 8200' - 9000'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" J-55 (or 2-7/8") Lining Material: IPC-1850 coated

Type of Packer: Lok-Set

Packer Setting Depth: Approx 8150 ft

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes X No

If no, for what purpose was the well originally drilled? Oil/gas

2. Name of the Injection Formation: Wolfcamp

3. Name of Field or Pool (if applicable): _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Yes. Morrow perfs 11348' to 11352' . CIBP 11135' CIBP 11135 +35 sxs cmt. Perfs 11205' to 11222'.

Plugging details listed below in Item VI (a).

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Grayburg-Jackson 7-Rivers, Queen, Grayburg, San Andres and Loco Hills Glorieta-Yeso above 6000', Sand Tank and Cedar Lake Morrow below 10,600'

Mesquite SWD, Inc. 161968
P.O. Box 1479
Carlsbad, NM 88221

Contact party: Kay Havenor 575-626-4518
KHavenor@georesources.com

C-108 Ancillary Data

1. API: 30-015-35249
- 2.. Original Lease Name: Cagney 28 Federal #1 New name used here: No
3. Legal publication lay distance description: "2.4 miles south of Loco Hills intersection of CR-217 and US-82"
4. AOR data: All wells are shown in summary and detail in **Item VI**: Data on unplugged wells in AOR that penetrate proposed disposal zone:
 - 1) 3001534525 Cimarex Energy Co. of Colorado, Full Tank 33 Federal #1, OCD Unit B, Sec. 33, T17S-R30E. 990' FNL & 1980' FEL. Spud 4/28/2006. TD 11,750'. 17-1/2" hole to 510'. Ran 13-3/8" 48# H-40 to 510' cmt w/470 sxs, circ 23 sxs to surface. 12-1/4" hole ran 9-5/8" 40# J-55 to 4,030', cmt w/1200 sxs- circ 66 sxs. Ran 7" 26# P-110 to 9,500', w/450 sxs in 2 stages. TOC 3,400 Temp Survey. Ran 4-1/2" 1106# P-110 liner 9.135' to 1,750' w/275 sxs. Perf 11,556-11,576' w/6 SPF 120 holes. Acid 2,000 gal 7.5% acid. Completed Morrow gas.
5. AOR well count as shown in **Item VI (b)**: 23 (2 shallow P&A, 2 undrilled locations, 2 deep P&A, 1 deep active, 16 shallow active).
6. P&A wells in AOR count: 4 (including target re-entry P&A 3/12/2007)
7. List of formation tops applicable to AOR: No logs released from this well. Tops from south offset B-33-T17S-R30E :
Queen 2512, San Andres 3400, 2nd Bone Springs sand 6870, Wolfcamp 8175, Canyon 10,005, Strawn 10,520, Atoka 10,695, Morrow 10,970, Mississippian 11,545
8. Producing or non-P&A wells in proposed disposal AOR: Wells that penetrates proposed disposal interval:
3001534525 Cimarex Energy Co. of Colorado, Full Tank 33 Federal #1, OCD Unit B, Sec. 33, T17S-R30E. 990' FNL & 1980' FEL Completed Morrow gas. TD 11,750'.
9. Is proposed SWD in a depleted zone/well? No.
10. Why is proposed interval non-productive?
Operator released no information. Offset logs show water wet through disposal interval. No production from this interval in greater area.
11. Notification and related acreage is shown in **Item XIII**:
Southern Bay shallow in majority of AOR, all W/2 Sec 27
Alamo Permian Resources shallow in unit E-34-17S-30E
Cimarex Sec 28 and 33 deep in AOR
Three Rivers deep Sec 34 N/2
12. Surface owner, as shown in Item XIII, is: BLM Lessee Williams & Son has been notified.
13. Rule 5.9 status of applicant: Financial status in compliance. Inactive wells include: 1 inactive
14. Location of well as to Potash or other sensitive areas: Not within R-111-P

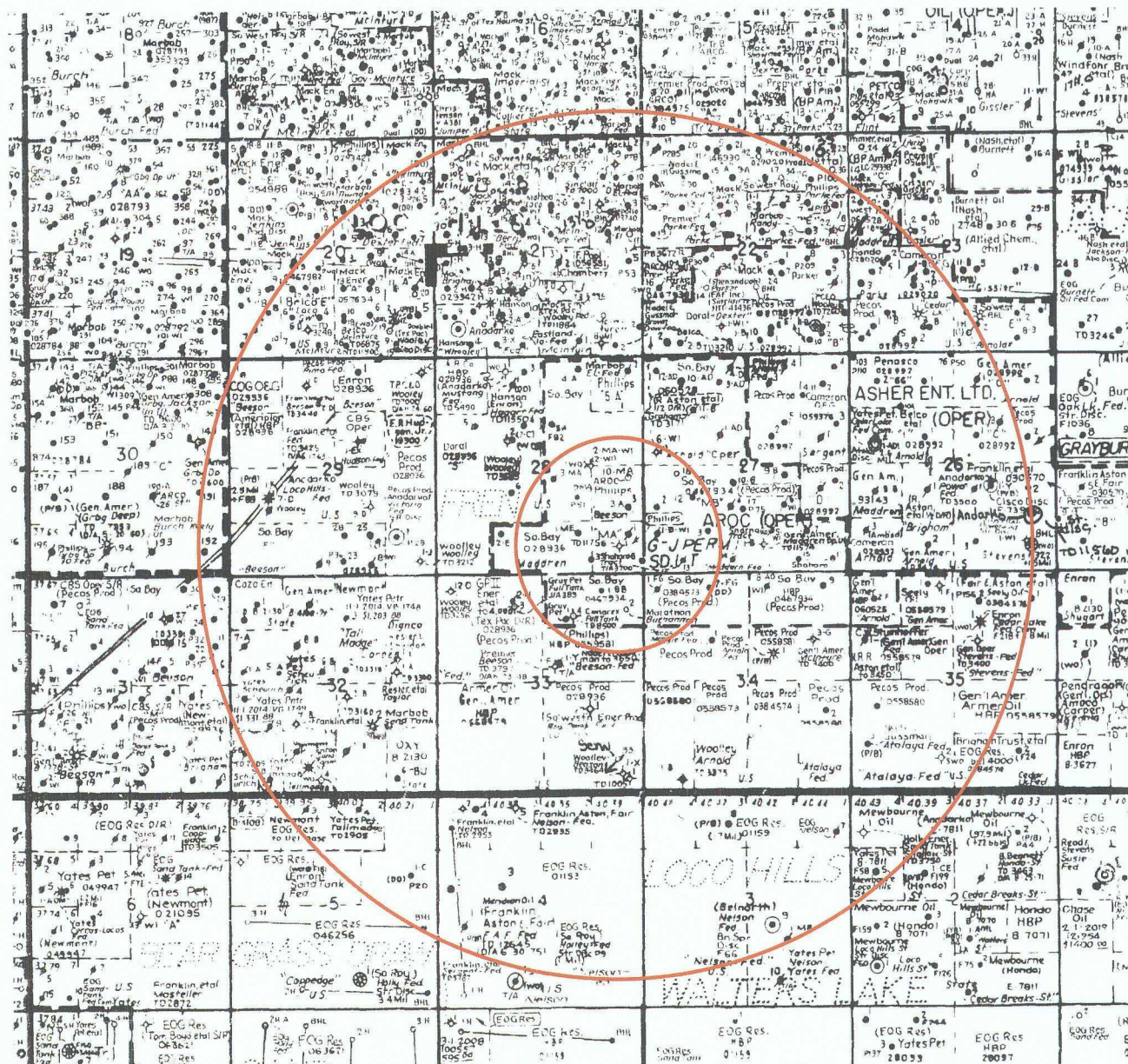
Cagney 28 Federal Com No. 1

660' FSL & 810' FEL

Sec. 28, T17S-R30E Eddy County, NM

Item V:

Area of Review
½ Mile AOR and 2 Mile Radius



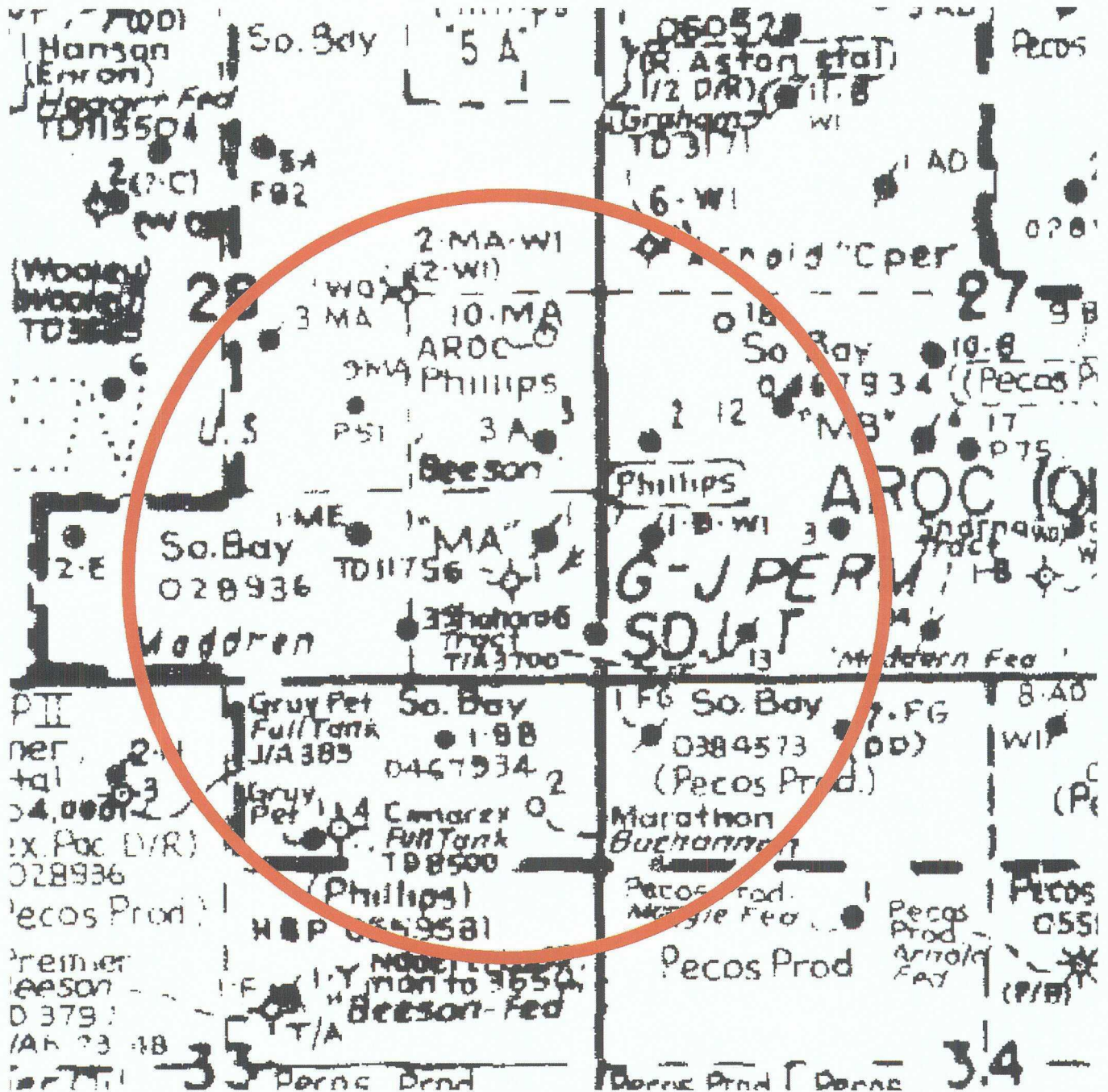
API 30-015-35249

660' FSL & 810' FEL

Cimarex Sec 28, 33
Tulsa River 15 1/2 Sec 34
Southern Bay w/ 1/2 Sec 27

Enlarged View of AOR
Centered in Unit C Sec. 35, T17S-R29E
Eddy Co., NM

Item V(a):



Cagney 28 Federal Com No. 1

660' FSL & 810' FEL

Sec. 28, T17S-R30E Eddy County, NM

Item VI: Data on wells in AOR that penetrate the proposed injection interval:

All Known Wells in AOR Penetrating Proposed Injection Interval

	API	WELL NAME	STATUS	UNIT	SEC	TWNS	RANGE	NS	EW	OPERATOR	LAND	SPUD DATE	PLUG DATE	ELEV-GL	TVD_DEPTH	Highest Perf
1	3001535249	Cagney 28 Federal #1	P&A	P	28	17S	30E	660-N	810-E	Cimarex Energy Co. of Colo	Federal	3/12/2007	4/22/2007	3624	11756	None
2	3001534525	Full Tank 33 Fed Com #4	Active	B	33	17S	30E	990-N	1980-E	Cimarex Energy Co. of Colo	Federal	4/28/2006		3611	11750	11556
3	3001535379	Full Tank 33 Fed Com #2	P&A	B	33	17S	30E	990-N	1880-E	Cimarex Energy Co. of Colo		3/22/2007	4/20/2007	3610	8500	None
	3001535249	Target conversion to SWD														

Item VI(a): Construction of well in the AOR that penetrate into the proposed injection interval:

1. 3001535249 Cimarex Energy Co. of Colorado, Cagney 28 Federal Com #1, OCD Unit P, Sec. 28, T17S-R30E. 660' FSL & 810' FEL. Spud 3/12/2007. 13-3/8" 46# H-40 @476' w/380 sxs finished w/70 sxs 1" to surface. 9-5/8" 40# J-55 @4,010' w/970 sxs TOC Temp Survey 470', circulated w/104 sxs 1" to surface. Open hole to TD 11,756', bit size 8-3/4". 50 sxs 100' 11656-11756', 50 sxs 11232-323' tagged 11175'. 50 sxs 9514-9614', 100 sxs 7920-8100' no tag, 140 sxs 7920-8100' tagged @7898', 50 sxs 6412-6512', 90 sxs 5404-5564', 100 sxs 3912-4052', 80 sxs 3912-4052' tagged 4002', 80 sxs 348-568' tagged 335', 50 sxs 0-100'. P&A 4/22/2007. TD 11,756' No logs released on this well.

2. 3001534525 Cimarex Energy Co. of Colorado, Full Tank 33 Federal #1, OCD Unit B, Sec. 33, T17S-R30E. 990' FNL & 1980' FEL. Spud 4/28/2006. TD 11,750'. 17-1/2" hole to 510'. Ran 13-3/8" 48# H-40 to 510' cmt w/470 sxs, circ 23 sxs to surface. 12-1/4" hole ran 9-5/8" 40# J-55 to 4,030', cmt w/1200 sxs- circ 66 sxs. Ran 7" 26# P-110 to 9,500', w/450 sxs in 2 stages. TOC 3,400 Temp Survey. Ran 4-1/2" 1106# P-110 liner 9.135' to 1,750' w/275 sxs. Perf 11,556-11,576' w/6 SPF 120 holes. Acid 2,000 gal 7.5% acid. Completed Morrow gas. TD 11,750'. ✓

3. 3001535379 Cimarex Energy Co. of Colorado, Full Tank 33 Federal #4, OCD Unit B, Sec. 33, T17S-R30E. 990' FNL & 1830' FEL. Spud 3/22/2007. 17-1/2" hole to 499'. Ran 13-3/8" 48# H-40 to 499' cmt w/451 sxs, circ 58 sxs to surface. 12-3/4" hole ran 9-5/8" 40# J-55 to 4,010', cmt w/1977 sxs 2 stages- circ 473 sxs. No testing or completion reported. 35 sxs cmt 8,487-8,384', 60 sxs cmt 8,241-8,061', 50 sxs cmt 5,375-5,225', 100 sxs cmt @4,081' tagged @3,746', 100 sxs cmt @632' tagged @297', 25 sxs cmt to surface. P&A 4/20/2007. TD 8500' does not penetrate the Wolfcamp or the top of proposed injection interval. ✓

Mesquite SWD, Inc.

API 30-015-35249

Cagney 28 Federal Com No. 1

660' FSL & 810' FEL

Sec. 28, T17S-R30E Eddy County, NM

Item VI(b): All known wells in the AOR and their status. Wells that penetrate (or close to) the proposed injection interval are shown below in red.

API	WELL_NAME	STATUS	IV	CT	Q	W	N	H	ANG	FTG	N	S	Q	FTG	EW	D	OPERATOR	LAND	TYPE	PLUG_DATE	SPUD_DATE	ELEVGL	TVD_DEPTH
3001510463	GRAYBURG JACKSON PSU AD	Active	E	27	17.0S	30E	2310	N	300	W	SOUTHERN BAY	F	O				27-Mar-1965					3650	3171
3001504360	GRAYBURG JACKSON PSU MB	Active	L	27	17.0S	30E	1650	S	330	W	SOUTHERN BAY	F	O				Pre 12/1/49					3632	3258
3001520256	GRAYBURG JACKSON PSU MB	Active	L	27	17.0S	30E	1815	S	1295	W	SOUTHERN BAY	F	O				6-Oct-1969					3624	3278
3001504359	GRAYBURG JACKSON PSU MB	Active	M	27	17.0S	30E	990	S	330	W	SOUTHERN BAY	F	I				Pre 12/1/49					3631	3265
3001530022	GRAYBURG JACKSON PSU MB	Active	M	27	17.0S	30E	330	S	990	W	SOUTHERN BAY	F	O				15-Feb-1998					3620	3700
3001523392	MADDREN A FEDERAL 005	Active	G	28	17.0S	30E	1650	N	2310	E	SOUTHERN BAY	F	O				19-Dec-1980					3622	3637
3001504378	G-J PRMR SD UT TR BA 003	Plugged	I	28	17.0S	30E	1650	S	330	E	GENERAL AMERICAN OIL		O				30-Sep-75					3629	3268
3001521692	GRAYBURG JACKSON PSU MA	Active	J	28	17.0S	30E	2310	S	2310	E	SOUTHERN BAY	F	O				28-Nov-2000					3630	3156
3001531272	GRAYBURG JACKSON PSU MA	Active	J	28	17.0S	30E	1840	S	1680	E	SOUTHERN BAY	F	O				1-Aug-2000					3631	3650
3001535250	CAGNEY 28 FEDERAL COM 002	New	N	28	17.0S	30E	860	S	1980	W	CIMAREX ENERGY CO. OF	F	G				Expired					3621	0
3001523405	MADDREN E FEDERAL 002	Active	N	28	17.0S	30E	990	S	1650	W	SOUTHERN BAY	F	O				29-Dec-1980					3622	3350
3001504358	GRAYBURG JACKSON PSU MB	Active	N	27	17.0S	30E	990	S	1650	W	SOUTHERN BAY	F	I				Pre 12/1/49					3627	>3250
3001535250	CAGNEY 28 FEDERAL COM 002	New	N	28	17.0S	30E	860	S	1980	W	CIMAREX ENERGY CO. OF	F	G				Expired					3621	0
3001504377	GRAYBURG JACKSON PSU ME	Active	O	28	17.0S	30E	990	S	1650	E	SOUTHERN BAY	F	I				Pre 12/1/49					3623	3418
3001531157	GRAYBURG JACKSON PSU ME	Active	O	28	17.0S	30E	330	S	1330	E	SOUTHERN BAY	F	O				22-Jun-2000					3618	3650
3001504376	GRAYBURG JACKSON WF UNIT	Plugged	P	28	17.0S	30E	990	S	330	E	PHILLIPS PETROLEUM CO	F	O				01-Dec-93					3628	3250
3001530170	GRAYBURG JACKSON PSU MA	Active	P	28	17.0S	30E	330	S	50	E	SOUTHERN BAY	F	O				18-Apr-1998					3622	3700
3001535249	CAGNEY 28 FEDERAL COM 001	Plugged	P	28	17.0S	30E	660	S	810	E	CIMAREX ENERGY CO. OF	F	G				22-Apr-07					3624	11756
3001504443	GRAYBURG JACKSON PSU BB	Active	A	33	17.0S	30E	330	N	990	E	SOUTHERN BAY	F	O				16-Sep-1941					3619	3280
3001534525	FULL TANK 33 FED COM 001	Active	B	33	17.0S	30E	990	N	1980	E	CIMAREX ENERGY CO. OF	F	G				28-Apr-2006					3611	11750
3001535379	FULL TANK 33 FEDERAL 004	Plugged	B	33	17.0S	30E	990	N	1830	E	CIMAREX ENERGY CO. OF	F	O				20-Apr-07					3610	8500
3001504446	GRAYBURG JACKSON PSU FG 002	Active	C	34	17.0S	30E	332	N	1666	W	SOUTHERN BAY	F	I				25-Apr-1941					3595	3281
3001504445	GRAYBURG JACKSON PSU FG	Active	D	34	17.0S	30E	330	N	330	W	SOUTHERN BAY	F	I				1-Apr-1939					3616	3360

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Sec. 28, T17S-R30E Eddy County, NM

API 30-015-35249

Item VII:

1. The maximum injected volume anticipated is 15,000 BWPD. Average anticipated is 10,000 BWPD.
2. Injection will be through a closed system.
3. Maximum injection pressure is expected to be 1,640 PSI.
4. Sources will be produced water. These will be compatible with waters in the disposal zone.
5. Water sample analyses from the ConocoPhillips Grayburg Deep 25 Federal #5, Unit A, Sec. 25, T17S-R29E, Eddy Co., shown below, averages TDS 39,343 mg/l (Source: NM WAIDS):

NM WAIDS



Water Samples for Well GRAYBURG DEEP UNIT 005

API = 3001503083

Formation = ABO

Field = null

Current Water Production Information

Instructions:

- Click For general information about this sample.
- Click For scale calculation pages (Stiff-Davis or Oddo Tomson methods).
- Click To select this water sample for water mixing. It will lead to the main page, and add the sample ID to the mixing table.
- Click **664** Click the hyperlinked sample number to make a .csv for that sample, or select several check boxes and click Submit for multiple samples
- The ions are in (mg/L) units.

	SampleID	T	R	S	SO4	CL	CO3	HCO3	K	Na	Ca	Mg
<input type="checkbox"/>	5040	17S	29E	25	6934	28980	null	1677	null	null	null	null
<input type="checkbox"/>	5132	17S	29E	25	2069	38030	null	995	null	null	null	null

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Item VIII:

Disposal will be into the Permian Wolfcamp. The lithology is predominately dolomites and shales. The interbedded members, both porous and non-porous, are effectively separated by very-low vertical permeability shale beds and/or carbonates. The majority of the beds are tight and form excellent barriers to the vertical movement of water. The Wolfcamp is overlain and underlain by bounding shales and dense limestones/dolomites of the Abo and Cisco- Canyon and Strawn limestones and shales respectively. No zones in, above or below the Wolfcamp are known to contain waters less than 10,000 mg/l. ✓

There is no known fresh, potable or stock water within a 2-mile radius. Records from the New Mexico Office of the State Engineer on 2/24/2011 show no known water wells within the 2-mile radius of the proposed Mesquite SWD disposal well.

New Mexico Office of the State Engineer
Wells with Well Log Information

No wells found.

Basin/County Search:

Basin: Capitan

UTMNAD83 Radius Search (in meters):

Easting (X): 596392

Northing (Y): 3629382

Radius: 3300

The data is furnished by the NMOSSE/ISC and is accepted by the recipient with the expressed understanding that the OSSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/24/11 7:13 AM

WELLS WITH WELL LOG INFORMATION

The surface geology of the greater area, including the 2-mile radius as shown in Item V above, is Quaternary eolian and piedmont deposits of Holocene to middle Pleistocene age. These are underlain by the Permian Rustler Formation and some evaporites. The top of the Artesia Group is approximately 1,000'. 11-3/4" csg is cemented to 666'. 8-5/8" csg set @4,006' has cement circulated to the surface.

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Item IX:

Acidize perforations in the Wolfcamp between 8,300' and 8,950' in 5-1/2" casing with approximately 20,000 gal 20% HCl.

Item X:

Logs are on file with the OCD.

Item XI:

No water wells located in the 2-mile area surrounding the proposed disposal. Please note Item VIII above.

Item XII:

There is no geological evidence of open faults nor hydrologic connection between the disposal zone and any possible underground sources of protectable water.

Mesquite SWD, Inc.

API 30-015-35249

Cagney 28 Federal Com No. 1

660' FSL & 810' FEL

Sec. 28, T17S-R30E Eddy County, NM

P&A diagram of Cimarex Full Tank 22 Federal #4 Note: This well does not penetrate the proposed the Wolfcamp formation or the top of the proposed injection interval. Included because of depth.

API: 3001535379

Operator: Cimarex Energy Co. of Colorado

Lease: Full Tank 33 Federal

Location: Sec. 33, T17S-R30E Eddy Co., NM

Footage: 990' FNL & 1830' FEL

Well No: 4

KB: NR

GL: 3610

Surface Csg

Size: 13-3/8"

Set @: 499

Sxs cmt: 451

Circ: 58 sxs surface

TOC: Surface

Hole Size: 17-1/2"

Intermediate Csg

Size: 9-5/8" 40# J-55

Set @: 4010

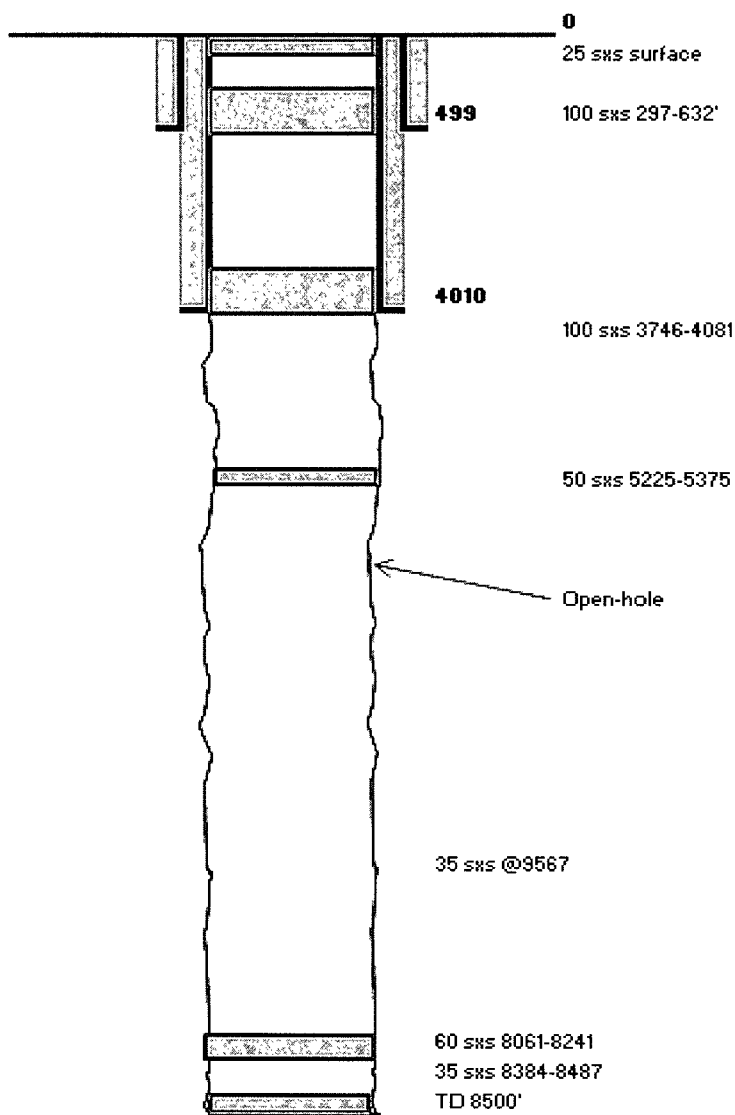
Sxs cmt: 1977 in 2 stages

Circ: 473 sxs surface

TOC: Surface

Hole Size: 12-1/4"

8-3/4" hole to TD



Not to Scale

Mesquite SWD, Inc.
Cagney 28 Federal Com No. 1
660' FSL & 810' FEL
Sec. 28, T17S-R30E Eddy County, NM

API 30-015-35249

Cimarex Energy #1 Full Tank 33 Federal #1

WELL COMPLETION DIAGRAM

API: 3001534525
Operator: Cimarex Energy Co. of Colorado
Lease: Full Tank 33 Federal
Location: Sec 33, T17S-R30 Eddy Co., NM
Footage: 990' FNL & 1980' FEL

Well No: 1

KB: 3643
GL: 3611
Spud date: April 28, 2006
Plugged date :
MSL of TD: -8107

Surface Csg

Size: 13-3/8" 48# H-40
Set @: 510
Sxs cmt: 470
Circ: 23 sxs
TOC: Surface
Hole Size: 17-1/2"

Intermediate Csg

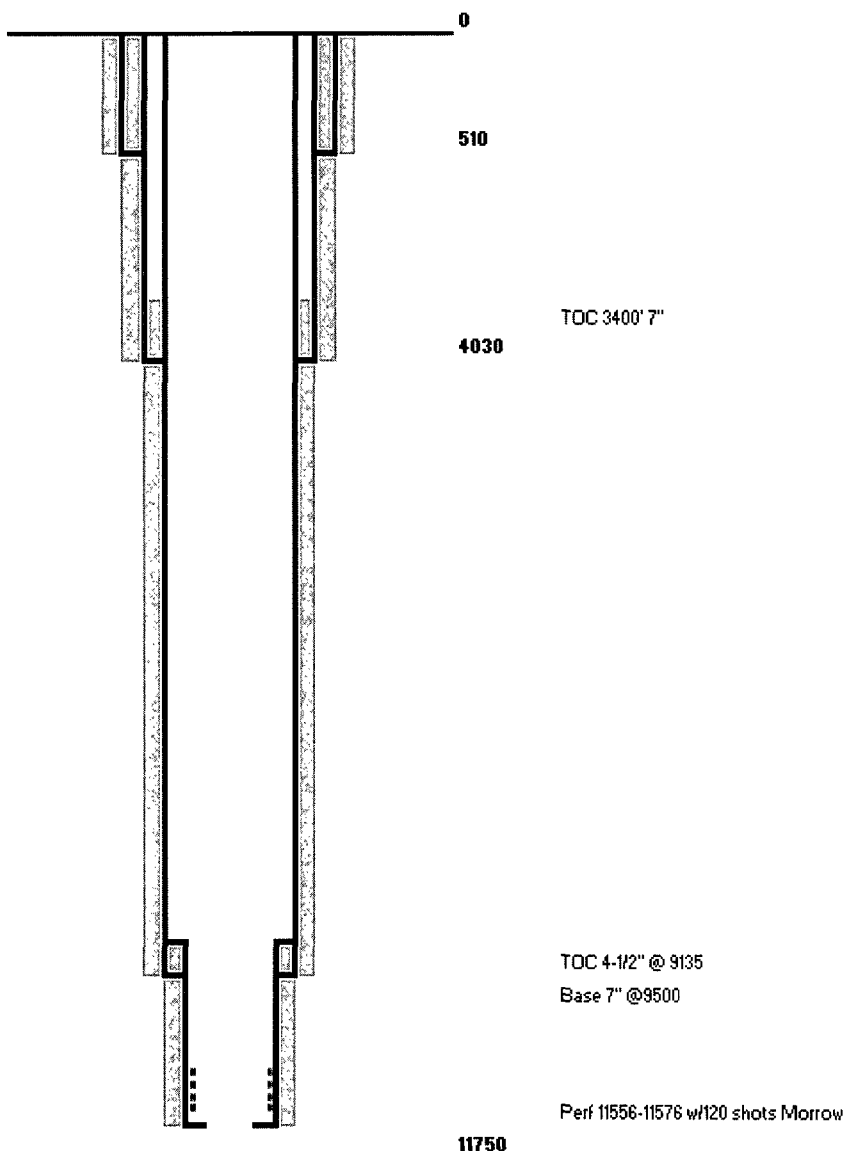
Size: 9-5/8" 40# J-55
Set @: 4030'
Sxs cmt: 1200
Circ: 66 sxs
TOC: Surface
Hole Size: 12-1/4"

Production Csg

Size: 26# CF95,N-80,L-80
Set @: 9,500
Sxs cmt: 450
Circ: No
TOC: 3400
Hole Size: 8-3/4"

Liner Csg

Size: 4-1/2" 11.6# P-110
Set @: 11750 to 9135
Sxs cmt: 275
Circ: Yes
TOC: 9135
Hole Size: 8-3/4"



Not to scale

Mesquite SWD, Inc.

API 30-015-35249

Cagney 28 Federal Com No. 1

660' FSL & 810' FEL

Sec. 28, T17S-R30E Eddy County, NM

Cimarex Energy Cagney 28 Federal Com #1 (Proposed target re-entry well)

Plug and Abandon Diagram

API: 3001535429

Operator: Cimarex Energy Co. of Colorado

Lease: Cagney 28 Federal Com

Location: Sec. 28, T17S-R30E Eddy Co., NM

Footage: 660' FSL & 810' FEL

Well No: 1

KB: NR

GL: 3624

Surface Csg

Size: 13-3/8" 48# H-40

Set @: 476

Sxs cmt: 380

Circ: 1" w/70 sxs

TOC: Surface

Hole Size: 17-1/2"

Intermediate Csg

Size: 9-5/8" 40# J-55

Set @: 4010

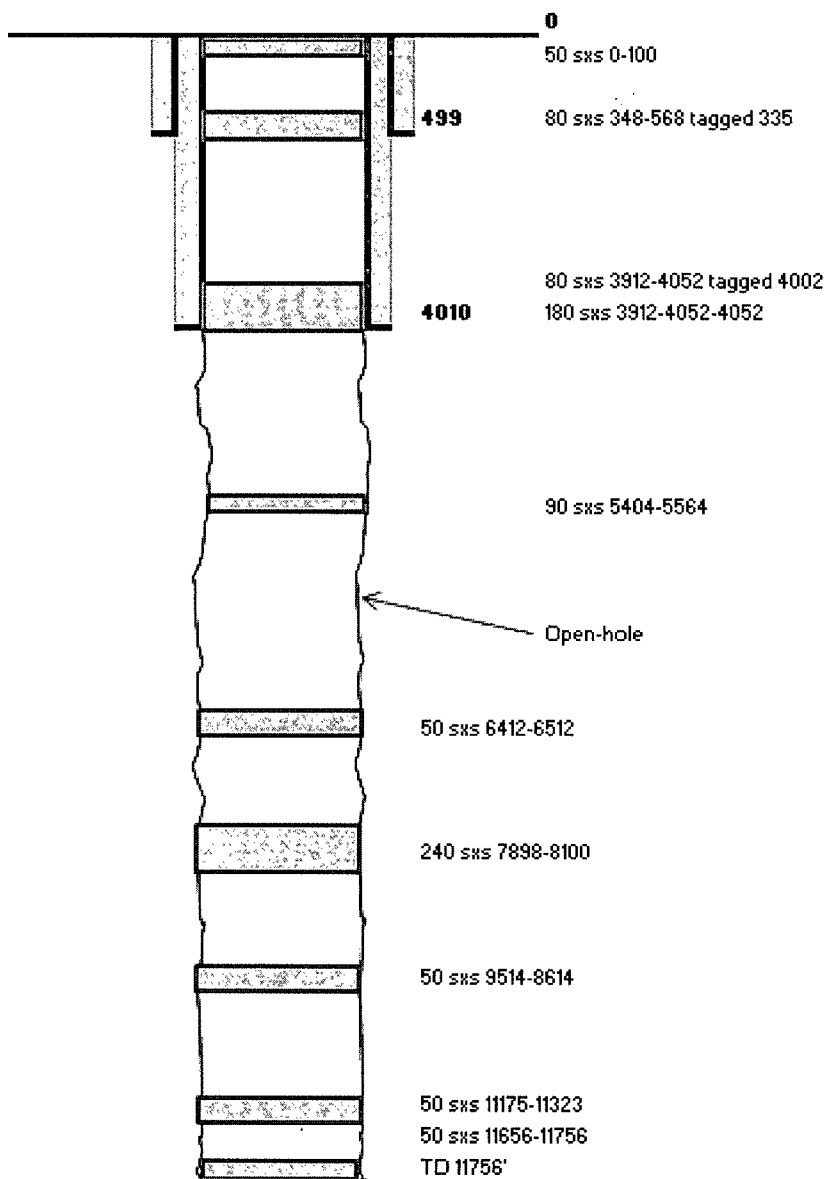
Sxs cmt: 1977 in 2 stages

Circ: 473 sxs surface

TOC: Surface

Hole Size: 12-1/4"

APD planned 8-3/4" to TD



Not to Scale

Mesquite SWD, Inc.
 Cagney 28 Federal Com No. 1
 660' FSL & 810' FEL
 Sec. 28, T17S-R30E Eddy County, NM

API 30-015-35249

Proposed Mesquite re-entry and re-completion for SWD.

API: 3001535249
 Operator: Mesquite SWD, Inc.
 Lease: Cagney 28 Federal Com
 Location: Sec 28, T17S-R30 Eddy Co., NM
 Footage: 660' FSL & 810' FEL

Well No: 1

KB: NR
 GL: 3555
 Spud date: August 22, 1996
 Plugged date: June 5, 2008
 MSL of TD: -8201

Surface Csg

Size: 13-3/8" 48# H-40
 Set @: 476
 Sxs cmt: 380
 Circ: 1" w/70 sxs
 TOC: Surface
 Hole Size: 17-1/2"

Intermediate Csg

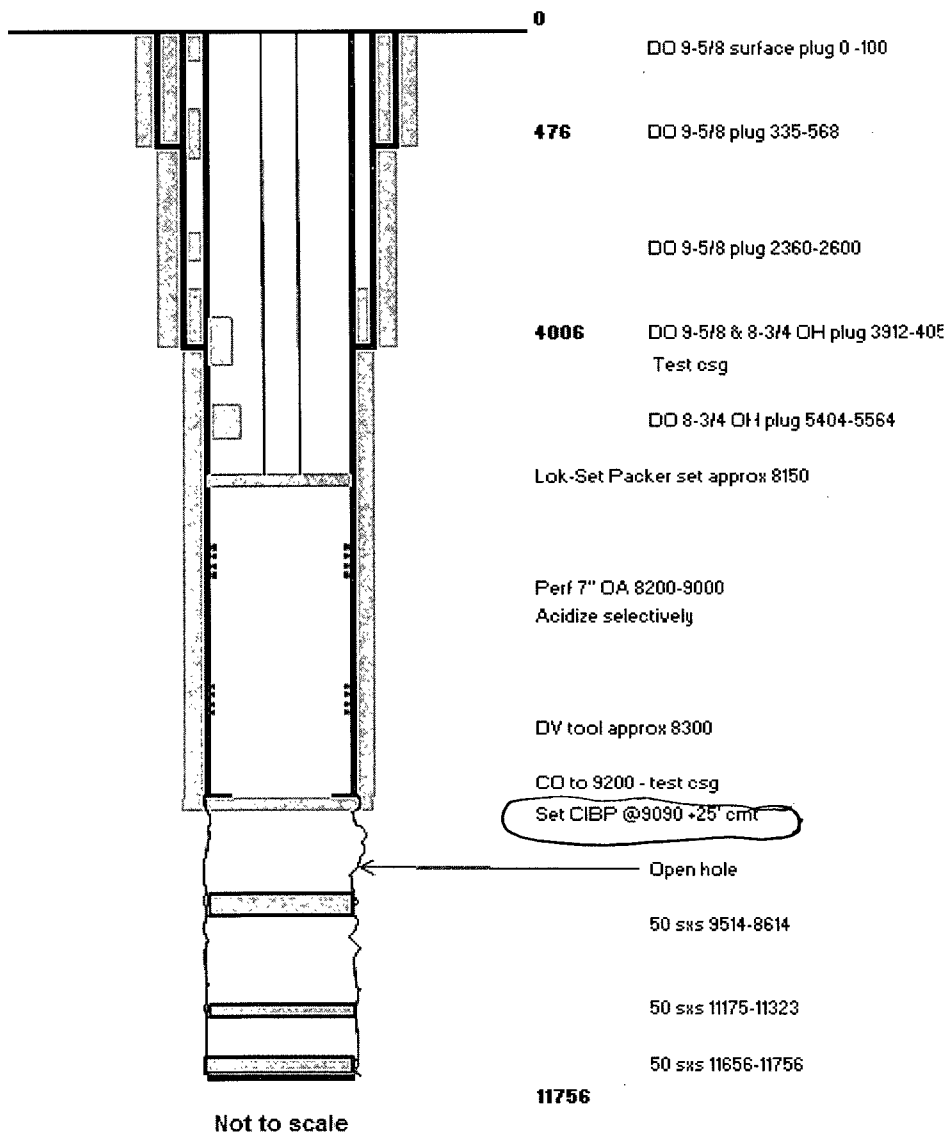
Size: 9-5/8" 40# J-55
 Set @: 4010
 Sxs cmt: 1977 in 2 stages
 Circ: 473 sxs surface
 TOC: Surface
 Hole Size: 12-1/4"

New Production Csg

Size: 7" 26# N-80, K-55
 Set @: approx 9100
 Sxs cmt: 2 stage 250 + 1350
 Circ: No
 TOC: approx 3500
 Hole Size: 8-3/4"

Tubular requirements (made-up):
 8150' 3-1/2" N80 9.3# upset IPC 1810 coated
 Lok-Set Packer set approx 8150

Perf and acidized selectively
 Load tubing annulus w/corrosion inhibitor
 Complete surface head for disposal





UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

FORM APPROVED
OMB No 1004-0135
Expires July 31, 1996

5 Lease Serial No
LC-053259-A
6 If Indian, Allottee or Tribe Name
7 If Unit or CA/Agreement, Name and/or No

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other
2. Name of Operator
Cimarex Energy Co. of Colorado
3a. Address
PO Box 140907; Irving, TX 75014-0907
3b. Phone No (include area code)
972-401-3111
4. Location of Well (Footage, Sec, T, R., M, or Survey Description)
660' FSL & 810' FEL
P-28-17S-30E

8 Well Name and No.
Cagney 28 Federal Com No. 1
9 API Well No
30-015-35249
10 Field and Pool, or Exploratory Area
Cedar Lake; Morrow
11 County or Parish, State
Eddy County, NM

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

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

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

04.14.07 Reached TD (11756'). Surface set @ 536' and intermediate set @ 4010.' One-inched to surface on both casing strings. Received permission from Wesley Ingram with the BLM to plug well.

	Plug	Interval	Cement	Remarks
04.20.07	1	11656'-11756'	50 sx	100' plug
	2	11123'-11323'	50 sx	200' plug tag @ 11175' (witnessed by Roy Caffall)
04.21.07	3	9514'-9614'	50 sx	100' plug
	4A	7920'-8100'	100 sx	180' plug, no tag found
	4B	7920'-8100'	140 sx	180' plug, tagged @ 7898' (witnessed by Bob Hoskinson)
	5	6412'-6512'	50 sx	100' plug
	6	5404'-5564'	90 sx	160' plug, tagged @ 5445' (witnessed by Bob Hoskinson)
	7A	3912'-4052'	100 sx	140' plug
04.22.07	7B	3912'-4052'	80 sx	140' plug, tagged @ 4002'
	8	348'-568'	80 sx	220' plug, tag @ 335'
	9	0-100'	50 sx	100' plug (witnessed by Bob Hoskinson)

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Natalie Krueger

Signature

Title

Reg Analyst I

Date

June 7, 2007

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

Date

JUN 15 2007

WESLEY V. INGRAM

REGISTERED PROFESSIONAL ENGINEER

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

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.

(Instructions on reverse)

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 74560	Pool Name Cedar Lake; Morrow
Property Code	Property Name CAGNEY "28" FEDERAL COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO.	Elevation 3624'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	28	17 S	30 E		660	SOUTH	310	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	Y	C	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Zeno Farris</i> 10-2-06 Signature Date</p> <p>Zeno Farris Printed Name</p>	
				<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>SEPTEMBER 28, 2006 Date Surveyed</p> <p><i>Gary L. Jones</i> Signature of Surveyor</p> <p>Professional Surveyor 7977</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>	
LC-028936-C		LC-053259-A		LC-029836-A	
Cagney 28 Fed Com #2 1980'				<p>Lat - N32°48'00.2" Long - W103°58'15.6" NMSPCE - N 654985.509 E 652668.709 (NAD-83)</p>	
		LC-053259-A		<p>3541.7' 3548.6' 810' 3539.5' 3550.7'</p>	
1090' LC-028936-E				Cagney 28 Fed Com #1	

Mesquite SWD, Inc.

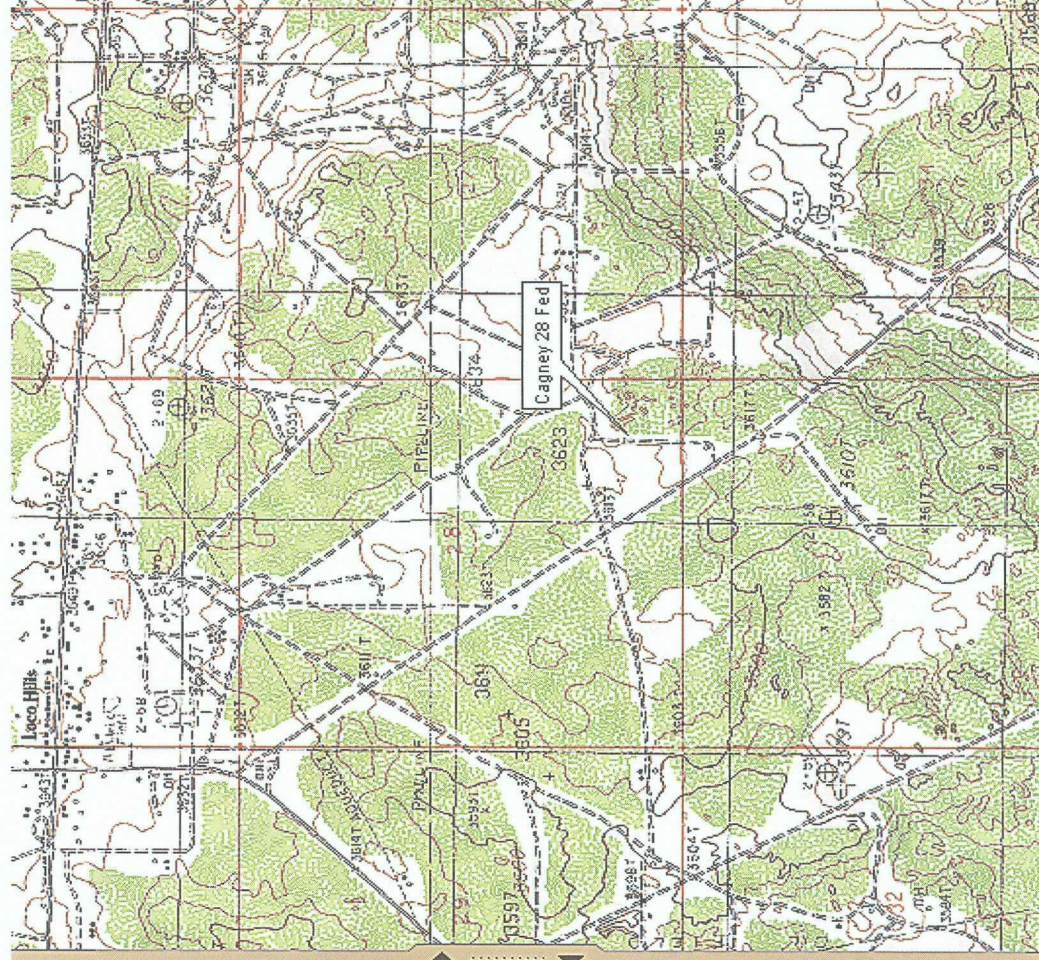
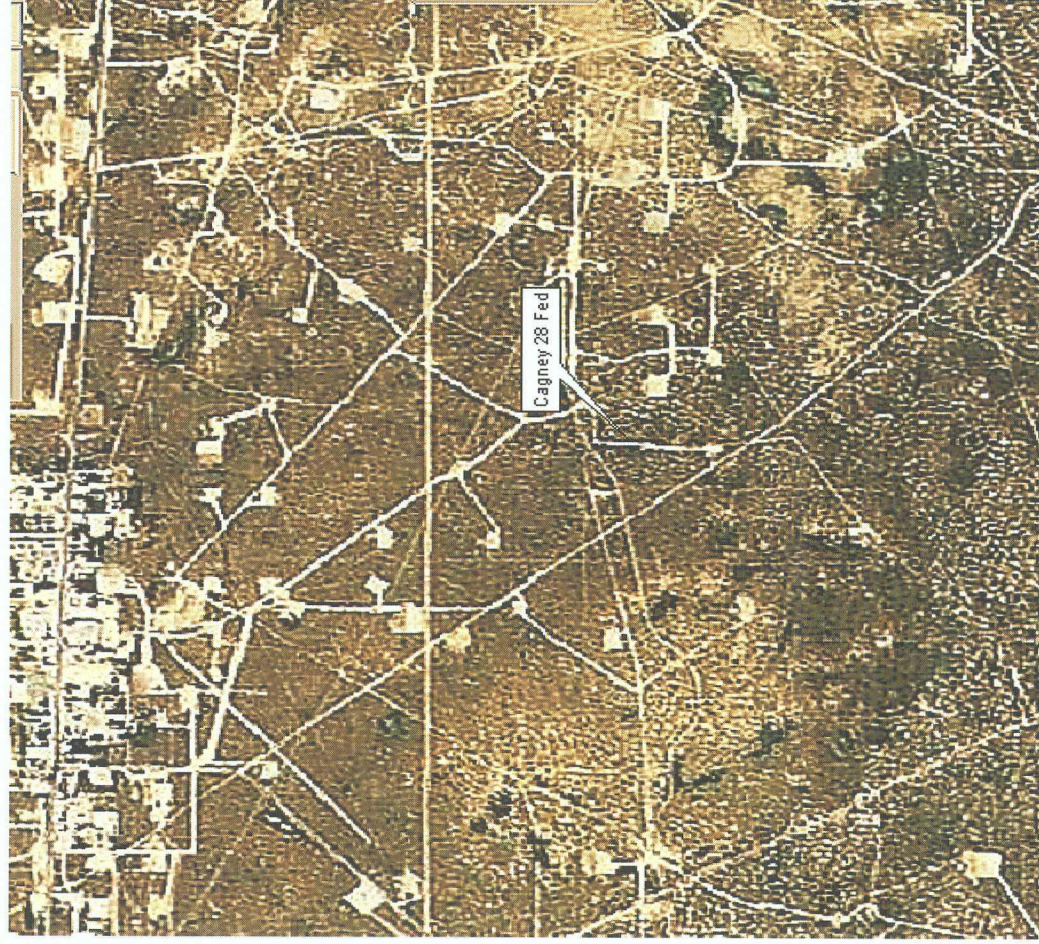
Cagney 28 Federal Com No. 1

660' FSL & 810' FEL

Sec. 28, T17S-R30E Eddy County, NM

API 30-015-35249

SPOT10 Satellite and Matching Topographic Map



Mesquite SWD, Inc.

API 30-015-35249

Cagney 28 Federal Com No. 1

660' FSL & 810' FEL

Sec. 28, T17S-R30E Eddy County, NM

Listing of all known wells/tracts in the one-half mile AOR Wells known to penetrate proposed disposal interval shown in red.

API	WELL_NAME	STATUS	IV	ECT	DOWN	SH	ANG	FTG_N	NS	Q	FTG_E	W	Q	OPERATOR	LAND	TYPE	PLUG_DATE	SPUD_DATE	ELEVGL	TVD_DEPTH
3001510463	GRAYBURG JACKSON PSU AD	Active	E	27	17.05	30E	2310	N	300	W	SOUTHERN BAY	F	O	27-Mar-1965	3650				3571	
3001504360	GRAYBURG JACKSON PSU MB	Active	L	27	17.05	30E	1650	S	330	W	SOUTHERN BAY	F	O	Pre 12/1/49	3632				3258	
3001520256	GRAYBURG JACKSON PSU MB	Active	L	27	17.05	30E	1815	S	1295	W	SOUTHERN BAY	F	O	6-Oct-1969	3624				3278	
3001504359	GRAYBURG JACKSON PSU MB	Active	M	27	17.05	30E	990	S	330	W	SOUTHERN BAY	F	I	Pre 12/1/49	3631				3265	
3001530022	GRAYBURG JACKSON PSU MB	Active	M	27	17.05	30E	330	S	990	W	SOUTHERN BAY	F	O	15-Feb-1998	3620				3700	
3001523392	MADDREN A FEDERAL 005	Active	G	28	17.05	30E	1650	N	2310	E	SOUTHERN BAY	F	O	19-Dec-1980	3622				3637	
3001504378	G-J PRMR SD UT TR BA 003	Plugged	I	28	17.05	30E	1650	S	330	E	GENERAL AMERICAN OIL		O	30-Sep-75	3629				3268	
3001521692	GRAYBURG JACKSON PSU MA	Active	J	28	17.05	30E	2310	S	2310	E	SOUTHERN BAY	F	O	28-Nov-2000	3630				3156	
3001531272	GRAYBURG JACKSON PSU MA	Active	J	28	17.05	30E	1840	S	1680	E	SOUTHERN BAY	F	O	1-Aug-2000	3631				3650	
3001535250	CAGNEY 28 FEDERAL COM 002	New	N	28	17.05	30E	860	S	1980	W	CIMAREX ENERGY CO. OF	F	G	Expired	3621				0	
3001523405	MADDREN E FEDERAL 002	Active	N	28	17.05	30E	990	S	1650	W	SOUTHERN BAY	F	O	29-Dec-1980	3622				3350	
3001504358	GRAYBURG JACKSON PSU MB	Active	N	27	17.05	30E	990	S	1650	W	SOUTHERN BAY	F	I	Pre 12/1/49	3627				>3250	
3001535250	CAGNEY 28 FEDERAL COM 002	New	N	28	17.05	30E	860	S	1980	W	CIMAREX ENERGY CO. OF	F	G	Expired	3621				0	
3001504377	GRAYBURG JACKSON PSU ME	Active	O	28	17.05	30E	990	S	1650	E	SOUTHERN BAY	F	I	Pre 12/1/49	3623				3418	
3001531157	GRAYBURG JACKSON PSU ME	Active	O	28	17.05	30E	330	S	1330	E	SOUTHERN BAY	F	O	22-Jun-2000	3618				3650	
3001504376	GRAYBURG JACKSON WF UNIT	Plugged	P	28	17.05	30E	990	S	330	E	PHILLIPS PETROLEUM CO	F	O	01-Dec-93	3628				3250	
3001530170	GRAYBURG JACKSON PSU MA	Active	P	28	17.05	30E	330	S	50	E	SOUTHERN BAY	F	O	18-Apr-1998	3622				3700	
3001535249	CAGNEY 28 FEDERAL COM 001	Plugged	P	28	17.05	30E	660	S	810	E	CIMAREX ENERGY CO. OF	F	G	22-Apr-07	3624				11756	
3001504443	GRAYBURG JACKSON PSU BB	Active	A	33	17.05	30E	330	N	990	E	SOUTHERN BAY	F	O	16-Sep-1941	3619				3280	
3001534525	FULL TANK 33 FED COM 001	Active	B	33	17.05	30E	990	N	1980	E	CIMAREX ENERGY CO. OF	F	G	28-Apr-2006	3611				11750	
3001535379	FULL TANK 33 FEDERAL 004	Plugged	B	33	17.05	30E	990	N	1830	E	CIMAREX ENERGY CO. OF	F	O	20-Apr-07	3610				8500	
3001504446	GRAYBURG JACKSON PSU FG 002	Active	C	34	17.05	30E	332	N	1666	W	SOUTHERN BAY	F	I	25-Apr-1941	3595				3281	
3001504445	GRAYBURG JACKSON PSU FG	Active	D	34	17.05	30E	330	N	330	W	SOUTHERN BAY	F	I	1-Apr-1939	3616				3360	

Mesquite SWD, Inc.
Cagney 28 Federal Com No. 1
660' FSL & 810' FEL
Sec. 28, T17S-R30E Eddy County, NM

API 30-015-35249

Item XIII:

Surface and Minerals Owner:

Bureau of Land Management
c/o Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220

Operators:

Alamo Permian Resources, LLC
820 Gessner Rd. Ste. 1650
Houston, TX 77024

Cimarex Energy Company of Colorado
15 E. 5th St. Ste. 1000
Tulsa, OK 74103

Southern Bay Operating, LLC
110 CypressStation Dr. #220
Houston, TX 77090

Three Rivers Operating Co., LLC
1122 S. Capital of Texas Hwy, Ste. 325
Austin, TX 78746

BLM Surface Lessee

Williams & Son Cattle Co.
P.O. Box 30
Maljamar, NM 88264

Mesquite SWD, Inc.
Cagney 28 Federal Com No. 1
660' FSL & 810' FEL
Sec. 28, T17S-R30E Eddy County, NM

API 30-015-35249

Item XIII:

Legal Publication

Affidavit of Publication

NO. 21573

STATE OF NEW MEXICO

County of Eddy:

Walter L. Green

Walter L. Green

being duly sworn, says that he is the Publisher
of the Artesia Daily Press, a daily newspaper of general
circulation, published in English at Artesia, said county
and state, and that the hereto attached

Legal Notice

was published in a regular and entire issue of the said
Artesia Daily Press, a daily newspaper duly qualified
for that purpose within the meaning of Chapter 167 of
the 1937 Session Laws of the state of New Mexico for
1 Consecutive weeks/days on the same
day as follows:

First Publication March 2, 2011

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Subscribed and sworn to before me this

2nd day of March 2011



OFFICIAL SEAL
Danny Scott
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires:

3/18/2014

Danny Scott
Danny Scott

Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

Mesquite SWD, Inc., c/o Kay Havenor, 904 Moore Ave, Roswell, NM 88201-1144, (575) 626-4518, is seeking approval from the New Mexico Oil Conservation Division to re-enter the Cimerax Energy Company of Colorado., Cagney 28 Federal Com No. 1 well API: 30-015-35249, located 660 feet from the south line and 810 feet from the east line of Section 28, T17S, R30E, Eddy County, NM, 2.4 miles south of Loco Hills intersection of CR-217 and US-82, and complete for commercial produced water disposal as the Mesquite SWD, Inc. Cagney 28 Federal Com No.1

The proposed disposal interval is the Wolfcamp Formation through casing perforations 8,200 feet to 9,000 feet (OA).

Mesquite SWD, Inc. plans to dispose of a maximum of 10,000 BWPD with a maximum pressure of 1,640 psi.

Parties with questions regarding this proposal can contact Kay Havenor at the address or phone number above.

Interested parties must file objections or requests for hearing within 15 days of publication to the Oil Conservation Division: 1220 S. St. Francis Dr., Santa Fe, NM 87505. Published in the Artesia Daily Press, Artesia, N.M., March 2, 2011. Legal No. 21573.

Mesquite SWD, Inc.
Cagney 28 Federal Com No. 1
660' FSL & 810' FEL
Sec. 28, T17S-R30E Eddy County, NM

API 30-015-35249

Item XIII:

Certified Mail Receipts

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com

OFFICIAL USE
AUSTIN TX 78746

Postage	\$	\$1.39	0602
Certified Fee		\$2.80	05
Return Receipt Fee (Endorsement Required)		\$2.30	Postmark Here
Restricted Delivery Fee (Endorsement Required)		\$0.00	03/02/2011
Total Postage & Fees	\$	\$6.49	

Sent To
Three Rivers Operating Co. LLC
Street, Apt. No. or PO Box No. 1122 S. Capital Texas Hwy
City, State, ZIP+4 Austin, TX 78746
PS Form 3800, August 2006 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com

OFFICIAL USE
HOUSTON TX 77024

Postage	\$	\$1.39	0602
Certified Fee		\$2.80	05
Return Receipt Fee (Endorsement Required)		\$2.30	Postmark Here
Restricted Delivery Fee (Endorsement Required)		\$0.00	03/02/2011
Total Postage & Fees	\$	\$6.49	

Sent To
Alamo Permian Resources, LLC
Street, Apt. No. or PO Box No. 620 Gessner Rd. Ste. 1650
City, State, ZIP+4 Houston, TX 77024
PS Form 3800, August 2006 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com

OFFICIAL USE
CARLSBAD NM 88220

Postage	\$	\$1.39	0602
Certified Fee		\$2.80	05
Return Receipt Fee (Endorsement Required)		\$2.30	Postmark Here
Restricted Delivery Fee (Endorsement Required)		\$0.00	03/02/2011
Total Postage & Fees	\$	\$6.49	

Sent To
Bureau of Land Management
Street, Apt. No. or PO Box No. 620 E. Greene St.
City, State, ZIP+4 Carlsbad, NM 88220
PS Form 3800, August 2006 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com

OFFICIAL USE
HOUSTON TX 77090

Postage	\$	\$1.39	0602
Certified Fee		\$2.80	05
Return Receipt Fee (Endorsement Required)		\$2.30	Postmark Here
Restricted Delivery Fee (Endorsement Required)		\$0.00	03/02/2011
Total Postage & Fees	\$	\$6.49	

Sent To
Southern Bay Operating, LLC
Street, Apt. No. or PO Box No. 110 Cypress Station Dr. #220
City, State, ZIP+4 Houston, TX 77090
PS Form 3800, August 2006 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com

OFFICIAL USE
MALJAMAR NM 88264

Postage	\$	\$1.39	0602
Certified Fee		\$2.80	05
Return Receipt Fee (Endorsement Required)		\$2.30	Postmark Here
Restricted Delivery Fee (Endorsement Required)		\$0.00	03/02/2011
Total Postage & Fees	\$	\$6.49	

Sent To
Williams & Son Cattle Co.
Street, Apt. No. or PO Box No. P.O. Box 30
City, State, ZIP+4 Maljamar, NM 88264
PS Form 3800, August 2006 See Reverse for Instructions

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Cinarex Energy Co. of Colo.
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PS Form 3800, August 2006 See Reverse for Instructions

Injection Permit Checklist (11/15/2010)

WFX _____ PMX _____ SWD 1273 Permit Date 5/11 UIC Qtr (M/A/M)

Wells 1 Well Name(s): Cogney 28 Federal Com #1

API Num: 30-0 15-35249 Spud Date: 3/12/07 New/Old: N (UIC primacy March 7, 1982)

Footages 660 FSL/810 FEL Unit P Sec 28 Tsp 17S Rge 30E County EDDY

General Location: 2.4 mi S. of Loco #45

Operator: Mazate SWD, INC. Contact Kay Hansen

OGRID: _____ RULE 5.9 Compliance (Wells) Y (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed ✓ Current Status: DRY HOLE PE A, NO CSG @ TD

Planned Work to Well: Re-enter, Run CSG, ing

Diagrams: Before Conversion ✓ After Conversion ✓ Elogs in Imaging File: NONE

Well Details:		Sizes	Setting	Stage	Cement	Determination
		Hole.....Pipe	Depths	Tool	Sx or Cf	Method
New <u>Existing</u> <u>✓</u>	Surface	17 1/2 13 3/4	476+70	—	460	CORE (w/1")
New <u>Existing</u> <u>✓</u>	Interm	12 1/4 9 5/8	4910	—	824	Surf w/1"
New <u>Existing</u> <u>LongSt</u>		8 3/4 (7)		≈ 8300	1600	3500 est.
New <u>Existing</u> <u>Liner</u>			11,756 TD			
New <u>Existing</u> <u>OpenHole</u>						

Depths/Formations: Depths, Ft. Formation Tops?

Formation(s) Above	8175	WC	✓
Injection TOP:	8200	WC	Max. PSI 1640
Injection BOTTOM:	9000	WC.	Open Hole Perfs <u>✓</u>
Formation(s) Below	10,005	Cogney	✓

1640
Captain Reef? ✓ Potash? ✓ Noticed? ✓ M/IPP? ✓ Noticed? ✓ Galado Top/Bot ✓ Cliff House? ✓

Fresh Water: Depths: _____ Formation QAL Wells? None Analysis? ✓ Affirmative Statement ✓

Disposal Fluid Analysis? Sources: Commercial ≈ 39,000 TDS

Disposal Interval: Analysis? (71940) Production Potential/Testing: offset LES show water wet

Notice: Newspaper Date 3/2/11 Surface Owner BLM/William Mineral Owner(s) ✓

RULE 26.7(A) Affected Persons: 3 RVRS/Southern Bay/Cirronex/Alamogordo

AOR: Maps? ✓ Well List? ✓ Producing in Interval? NO Wellbore Diagrams? ✓

.....Active Wells 1 Repairs? 0 Which Wells? —

.....P&A Wells 1 Repairs? 0 Which Wells? —

Issues: _____ Request Sent _____ Reply: _____