

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Ave., Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
May 27, 2004

WELL API NO. 30-045-30822 31250
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Apperson
8. Well Number #1E
9. OGRID Number 020208
10. Pool name or Wildcat Blanco Mesa Verde / Basin Dakota

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" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	
2. Name of Operator San Juan Resources of Colorado	
3. Address of Operator c/o Walsh Engineering 7415 East Main Street, Farmington, NM 87402	
4. Well Location Unit Letter I : 1964' feet from the South line and 670' feet from the East line Section 30 Township 30N Range 11W NMPM County San Juan	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5778' GL	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type	Depth to Groundwater
Distance from nearest fresh water well	
Distance from nearest surface water	
Pit Liner Thickness:	mil
Below-Grade Tank: Volume	bbls;
Construction Material	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

On 08/22/05 the above well was Fraced per attached treatment reports.



I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Paul C. Thompson TITLE AGENT DATE 09/16/05

Type or print name Paul C. Thompson, P.E. E-mail address: paul@walsheng.net Telephone No. 505-327-4892

For State Use Only

APPROVED BY: Shah Lee TITLE SUPERVISOR DISTRICT # 3 DATE SEP 22 2005

Conditions of Approval (if any):

FRACTURE TREATMENT REPORT

Operator: San Juan Resources of Colorado Well Name: Apperson #1E
Date: 10-Sep-05
Field: Basin Dakota - Blanco Mesa Verde Location: 30/30N/11W County: San Juan State: NM
Stimulation Company: Halliburton / Computalog Supervisor: Paul Thompson

Stage #: 3/3 Mesa Verde

Sand on location: Design: 120,000# Weight ticket: 121,580 Size/type: 20/40 Brady

Fluid on location : No. of Tanks: 4 Strap: 20 Amount: 1600 Usable: 1440

Perforations:
Depth: 4372 - 4421 Total Holes: 21 PBTD: 4450' KB
Shots per foot: 1 spf EHD: 0.34" Composite BP

Breakdown:
Acid: 1000 gal 15%
Balls: 30 7/8" bio-balls
Pressure: 1747 psi Rate: 11.5 BPM

Stimulation:
ATP: 2750 psi AIR: 51.0 BPM
MTP: 3550 psi MIR: 54.0 BPM

		Sand Stage	Pressure	Rate	N2 Quality	BHTP
ISIP:	<u>2312</u>	pad	3454	50.6	50.6	2767
5 min:	<u>1733</u>	1 ppg	2765	49.4	60.0	2221
10 min:	<u>1662</u>	1.5 ppg	2724	51.1	61.8	2100
15 min:	<u>1625</u>	2 ppg	2708	52.0	63.1	2074
		3 ppg	2783	50.4	61.8	2314
Job Complete at:	<u>0945</u> hrs.	Date:	<u>9/10/2005</u>	Start flow back:	<u>1215 hrs</u> with 1500 psi	
Total Fluid Pumped:	<u>1110 bbls</u>					
Total Sand Pumped:	<u>120,000</u>	Total Sand on Formation:	<u>120,000</u>			
Total Nitrogen Pumped:	<u>145,257 SCF</u>					

Notes:

All fluid was 2% KCl and City water with 1 gal/1000 gal friction reducer. Frac gradient based on the ISIP was 0.75 psi/ft.

FRACTURE TREATMENT REPORT

Operator: San Juan Resources of Colorado Well Name: Apperson #1E
Date: 27-Aug-05
Field: Basin Dakota - Blanco Mesa Verde Location: 30/30N/11W County: San Juan State: NM
Stimulation Company: Halliburton / Computalog Supervisor: Paul Thompson

Stage #: 3/3 Mesa Verde

Sand on location: Design: 120,000# Weight ticket: 121,580 Size/type: 20/40 Brady

Fluid on location : No. of Tanks: 4 Strap: 20 Amount: 1600 Usable: 1440

Perforations:
Depth: 4372 - 4421 Total Holes: 21 PBD: 4450' KB
Shots per foot: 1 spf EHD: 0.34" Composite BP

Breakdown:
Acid: _____
Balls: _____
Pressure: _____ Rate: _____

Stimulation:
ATP: _____ AIR: _____
MTP: _____ MIR: _____

	Sand Stage	Pressure	Rate	BHTP
	pad			
ISIP: _____	1 ppg			
5 min: _____	2 ppg			
10 min: _____	3 ppg			
15 min: _____	4 ppg			

Job Complete at: _____ hrs. Date: _____ Start flow back: _____

Total Fluid Pumped: _____

Total Sand Pumped: _____ Total Sand on Formation: _____

Total Nitrogen Pumped: None

Notes:

Could not get the formation to break at 4200 psi. Picked up a dump bailer and loaded it with 9 gal of 28% HCl. Hit an obstruction in the casing at 3426'. Could not work any deeper. Broke the glass and left the acid at 3426'. POH. Tried to break the formation again but could not establish a rate at 4000 psi. RIH with a junk basket and hit obstruction again at 3426'. Could not get any deeper. POH. Recovered frac sand, a 1" stone, and a copper wire from the dump bailer. SI well. Wait on rig to clean out.

FRACTURE TREATMENT REPORT

Operator: San Juan Resources of Colorado Well Name: Apperson #1E
Date: 27-Aug-05
Field: Basin Dakota - Blanco Mesa Verde Location: 30/30N/11W County: San Juan State: NM
Stimulation Company: Halliburton / Computalog Supervisor: Paul Thompson

Stage #: 2/3 Upper Dakota

Sand on location: Design: 70,000# Weight ticket: 130,560 Size/type: 20/40 SLC

Fluid on location : No. of Tanks: 6.5 Strap: 20 Amount: 2600 Usable: 2320

Perforations: Depth: 6523 - 31 & 6535 - 52 Total Holes: 75 PBD: 6558' KB
Shots per foot: 3 spf EHD: 0.34" Composite frac plug

Breakdown: Acid: 500 gal 15% HCl
Balls: None
Pressure: 3475 Rate: 35.5
Formation broke 3097 psi.
Acid on: 3587 psi at 35.5 BPM
Acid end: 3514 psi at 35.6 BPM

Stimulation: ATP: 3500 psi AIR: 35.5 BPM
MTP: 4350 psi MIR: 39 BPM

	Sand Stage	Pressure	Rate	BHTP
ISIP: 4104	pad	3172	35.6	5577
5 min: 2332	1 ppg	3055	35.5	5195
10 min: 1574	2 ppg	3697	39.0	5877
15 min: 1145	3 ppg			
	4 ppg			

Job Complete at: 1100 hrs. Date: 8/27/2005 Start flow back:

Total Fluid Pumped: 801 bbls

Total Sand Pumped: 34,248# Total Sand on Formation: 29,665# (4583# in the WB)

Total Nitrogen Pumped: None

Notes:

All frac fluid was 2% KCl and City water with biocide and Delta 200 fluid with, crosslinker, surfactant, and ammonium persulfate breaker. Treating pressures started to increase as soon as the 1 ppg sand hit formation. Pressures started rising rapidly during the 2 ppg stage. Increased the rate from 35 to 39 BPM with no effect on the rate of pressure increase. Went to flush early but could not flush the sand past 3500' before the maximum pressure was reached. Left 4,583# in the wellbore. SI well and let the sand settle out.

FRACTURE TREATMENT REPORT

Operator: San Juan Resources of Colorado Well Name: Apperson #1E
Date: 22-Aug-05
Field: Basin Dakota - Blanco Mesa Verde Location: 30/30N/11W County: San Juan State: NM
Stimulation Company: Halliburton / Computalog Supervisor: Paul Thompson

Stage #: 1/3 Lower Dakota

Sand on location: Design: 60,000# Weight ticket: 130,560 Size/type: 20/40 SLC

Fluid on location: No. of Tanks: 8 Strap: 20 Amount: 3200 Usable: 2880

Perforations:

Depth: 6564-66, 80-82, 6594-6605 Total Holes: 66 PBTD: 6678' KB
6608 - 15 Loggers
Shots per foot: 3 spf EHD: 0.34"

Breakdown:

Acid: 500 gal 15% HCl
Balls: None
Pressure: Rate: Formation broke 3238 psi.
Acid on: 2681 psi at 34.5 BPM
Acid end: 2563 psi at 34.8 BPM

Stimulation:

ATP: 2500 psi AIR: 34.4 BPM
MTP: 4200 psi MIR: 35.1 BPM

	Sand Stage	Pressure	Rate	BHTP
ISIP: Screen Out	pad	2415	34.7	4028
5 min:	1 ppg	2264	34.7	3970
10 min:	2 ppg	2152	34.4	4041
15 min:	3 ppg	2151	34.4	4128
	4 ppg	2667	34.2	4767

Job Complete at: 0900 hrs. Date: 8/22/2005 Start flow back:

Total Fluid Pumped: 851 bbls

Total Sand Pumped: 61,740# Total Sand on Formation: 56,000#

Total Nitrogen Pumped: None

Notes:

All frac fluid was 2% KCl and City water with biocide and Delta 200 fluid with, crosslinker, surfactant, and ammonium persulfate breaker. Treating pressures increased rapidly during the 3 and 4 ppg stages. Pressures increased to 4200 psi and the pump kick-outs went off during the flush. All pumps quit pumping. Could not re-establish a rate at less than 4200 psi to finish the flush. Left 5,765# of sand in the formation. SI the well with 3500 psi.