Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD
JUL 31 2013
RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised August 1, 2011

WELL API NO. 30-025-05164

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: Shell Maxwell

1. Type of Well: Oil Well ☐ Gas Well ☒ Other SWD

8. Well Number 001

2. Name of Operator: Resolute Natural Resources Co., LLC

9. OGRID Number 295770

3. Address of Operator: 1675 Broadway, Ste 1950, Denver, CO 80202

10. Pool name or Wildcat: Devonian

4. Well Location
Unit Letter J : 1980 feet from the south line and 1650 feet from the west line
Section 27 Township 14S Range 37E NMPM 6 County Lea

11. Elevation (*Show whether DR, RKB, RT, GR, etc.*) 3821 GL

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: ☐		OTHER: Repair casing ☒	

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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Resolute moved in the pulling unit on the subject well on May 20, 2013 to pull the tubing and check for the leak that caused an MIT failure on May 16. Efforts to pull the tubing were not immediately successful due to parted casing. Crew were able to mill out to a split shot collar at 11997, pulled the packer, tied 7" casing back together with a lead seal patch, cemented the casing (report attached), drilled out the cement, went in hole with the injection packer to set, ran an MIT test, and put the well back on injection on 7-27-13. Attached is wellbore diagram, casing, liner and cementing report and daily activity report.

SWD969

Spud Date: 5-20-13 Rig Release Date: 7-26-13

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Sherry Glass electronic signature* TITLE Sr Regulatory Technician DATE 7-30-13

Type or print name Sherry Glass E-mail address: sglass@resoluteenergy.com PHONE: 303-573-4886 X1580

For State Use Only

APPROVED BY: TITLE Dist. Mgr DATE 9-19-2013

Conditions of Approval (if any):

SEP 19 2013

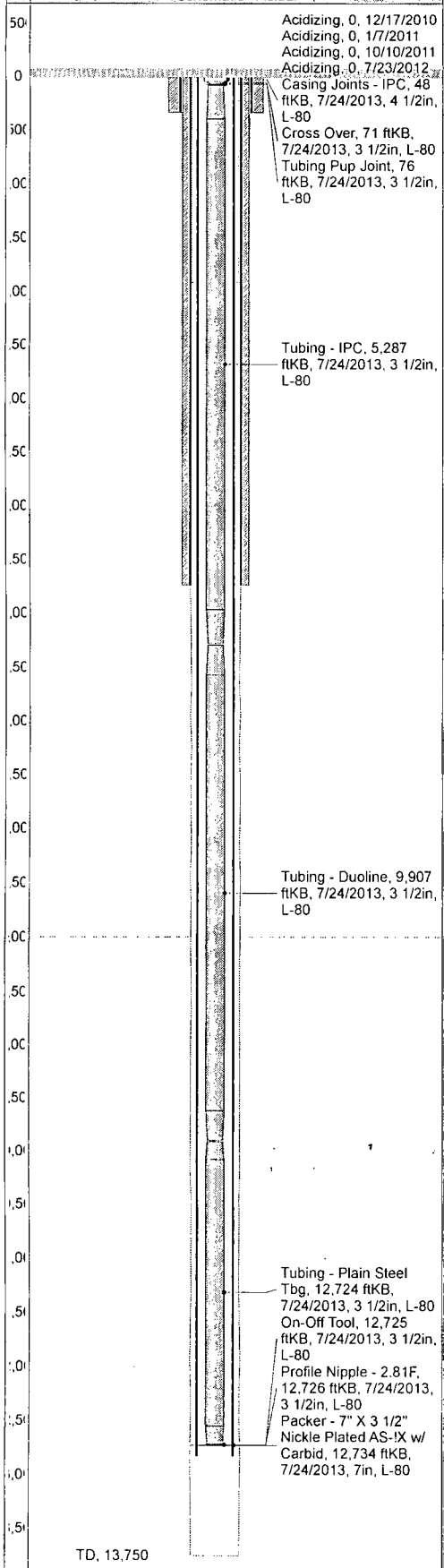
Shell Maxwell 27 01 SWD Wellbore Diagram

Well Name	API Number	County	State/Province	Field Name	Current Well Status
Shell Maxwell 27 01 SWD	30025051640000	Lea	New Mexico	Denton	

Section	Township	Ground Elevation (ft)	Original KB Elevation (ft)	PBTD (ftKB)	TD (ftKB)	Well Spud Date/Time
27	14S	3,821.00	3,830.00		13750	8/4/1953

Wellbore Config: - Original Hole, 7/30/2013 11:15:53 AM

ftKB MD — Schematic - Actual



Wellbore Information

Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Surface	17 1/2	9.0	338.0
Intermediate	12 1/4	338.0	4,743.0
Production	8 3/4	4,743.0	13,750.0

Casing and Liner Information

Casing Description	Set Depth (ftKB)	Centralizers	String OD (in)	String Wt (lbs/ft)	String Grade	String Top Thrd
Surface	338.0		13 3/8	48.00	H-40	
Production2	1,918.5		7	26.00	L-80	LT&C
Intermediate	4,743.0		9 5/8	32.30	H-40	

Cement Information

Description	Top (ftKB)	Bottom (ftKB)
Cement Plug	12,665.0	12,700.0
Fluid Type		Amount (sacks)
		5
Description	Top (ftKB)	Bottom (ftKB)
Production Casing Cement	9.0	1,926.0
Fluid Type		Amount (sacks)
Tail		325
Description	Top (ftKB)	Bottom (ftKB)
Fluid Type		Amount (sacks)
Description	Top (ftKB)	Bottom (ftKB)
Surface Casing Cement	9.0	338.0
Fluid Type		Amount (sacks)
		250
Description	Top (ftKB)	Bottom (ftKB)
Intermediate Casing Cement	9.0	4,743.0
Fluid Type		Amount (sacks)
		2,500

Perforations Information

Date	Top (ftKB)	Btm (ftKB)	Entered Shot Total	Zone

Stimulations & Treatments

Date	Zone	Type	Proppant Frm (lb)
12/17/2010		Acidizing	
1/7/2011		Acidizing	
10/10/2011		Acidizing	
7/23/2012		Acidizing	

Tubing Information

Item Description	OD (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)	Btm (ftKB)
4 1/2" 12.75# L-80 IPC	4 1/2	12.75	L-80	280	8,214.00	8,223.0
Depth Correction	4 1/2			1	2.00	11.0
X/O 4 1/2" 12.75# CS box X LTC pin	4 1/2	12.75		1	30.44	8,253.4
Casing Joints - IPC	4 1/2	11.60	L-80	1	38.86	47.8
Tubing	4 1/2	11.60	L-80	62	2,458.88	2,469.9
X/O 4 1/2" 12.75# LTC box X DSS pin	4 1/2	12.75		1	31.82	8,285.3
Cross Over	3 1/2		L-80	3	23.00	70.8
4 1/2 Buttress Box x 4 1/2 LT&C Pin XO	4 1/2			1	1.84	2,471.7
4 1/2" 12.75# L-80 DSS IPC	2 7/8	12.75	L-80	93	3,171.00	11,456.3

Rod and Pump Information

Item Description	OD (in)	Jts	Len (ft)	Cum Len (ft)

Other Downhole Information

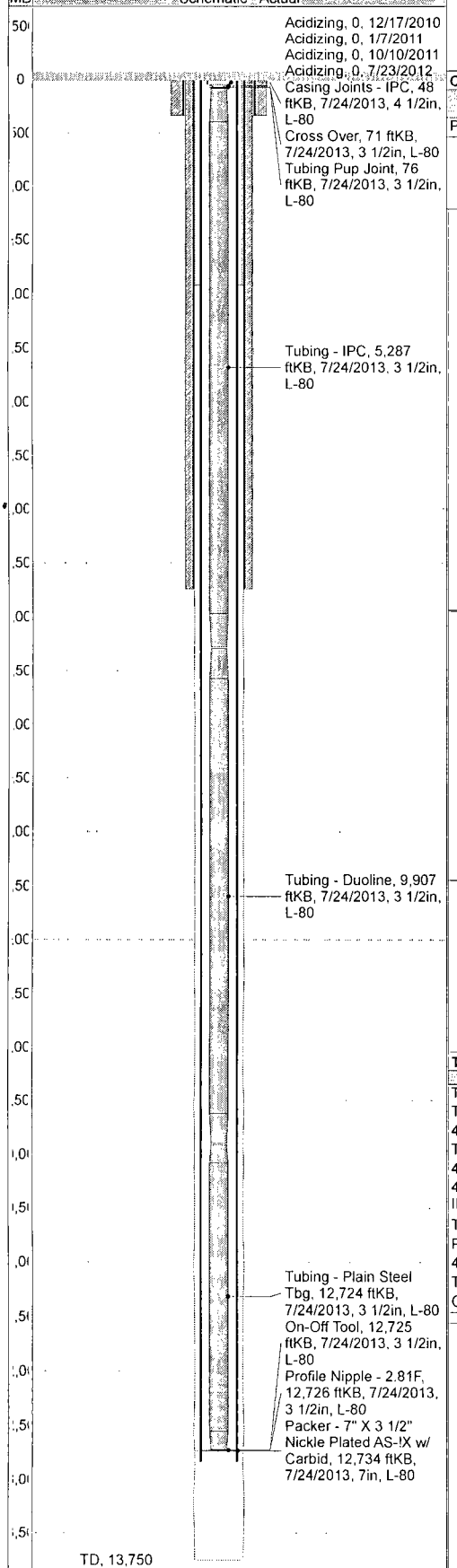
Description	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Comment
CIBP	12,695.0	12,700.0	7/8/2013	7/22/20...	

Shell Maxwell 27 01 SWD Wellbore Diagram

Well Name	API Number	County	State/Province	Field Name	Current Well Status
Shell Maxwell 27 01 SWD	30025051640000	Lea	New Mexico	Denton	

Section	Township	Ground Elevation (ft)	Original KB Elevation (ft)	PBTD (ftKB)	TD (ftKB)	Well Spud Date/Time
27	14S	3,821.00	3,830.00		13750	8/4/1953

Wellbore Config: - Original Hole, 7/30/2013 11:15:53 AM



Casing and Liner Information

Casing Description	Set Depth (ftKB)	Centralizers	String OD (in)	String Wt (lbs/ft)	String Grade	String Top Thrd
Production	12,83...		7	26.00		

Tubing Information

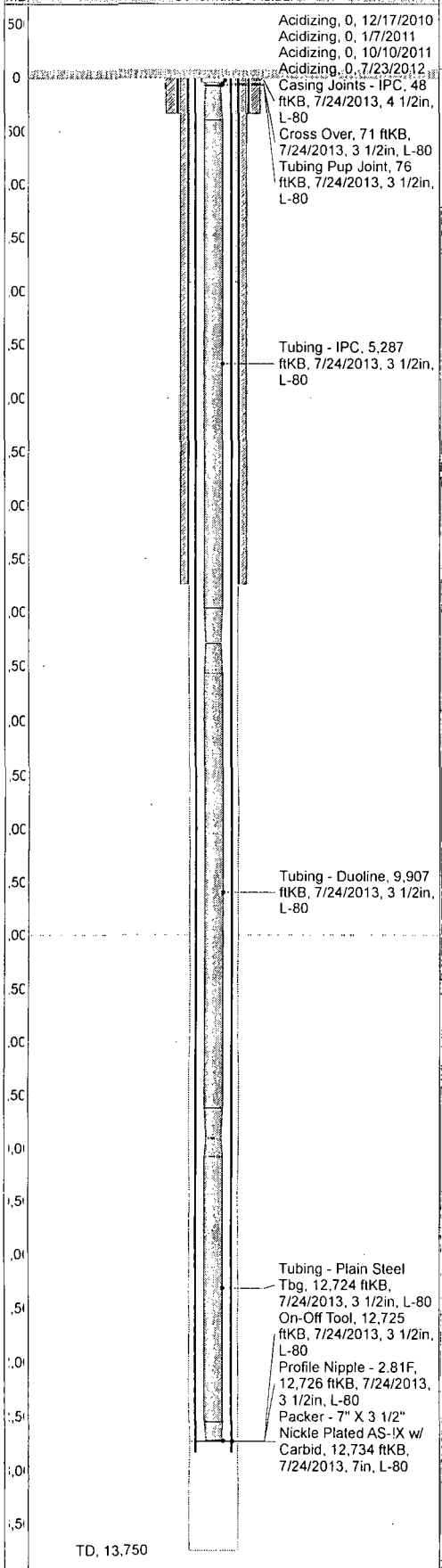
Item Description	OD (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)	Btm (ftKB)
Tubing Pup Joint	3 1/2		L-80	1	4.70	75.5
Tubing	4 1/2	11.60	L-80	251	10,253...	12,725.6
4 1/2" 12.75# box X STC 8 rd pin	2 7/8	12.75		1	31.60	11,487.9
Tubing - IPC	3 1/2	9.30	L-80	160	5,211.65	5,287.2
4 /12 LT&C Box X 3 1/2" 8rd pin	4 1/2			1	1.05	12,726.7
4 1/2" 12.75# L-80 8 rd ST & C IPC	2 7/8	12.75	L-80	43	1,265.68	12,753.5
Tubing - Duoline	3 1/2	9.20	L-80	150	4,619.40	9,906.6
Packer	6			1	9.88	12,736.5
4 1/2" 8 rd box X 3 1/2" 8 rd pin	2 7/8			1	1.12	12,754.7
Tubing - Plain Steel Tbg	3 1/2	9.30	L-80	87	2,817.09	12,723.7
On/Off tool	2 7/8			1	10.00	12,764.7

Shell Maxwell 27 01 SWD Wellbore Diagram

Well Name	API Number	County	State/Province	Field Name	Current Well Status
Shell Maxwell 27 01 SWD	30025051640000	Lea	New Mexico	Denton	

Section	Township	Ground Elevation (ft)	Original KB Elevation (ft)	PBTD (ftKB)	TD (ftKB)	Well Spud Date/Time
27	14S	3,821.00	3,830.00		13750	8/4/1953

Wellbore Config: - Original Hole, 7/30/2013 11:15:53 AM



Tubing Information

Item Description	OD (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)	Btm (ftKB)
On-Off Tool	3 1/2	9.30	L-80	1	1.00	12,724.7
Profile Nipple	2 7/8			1	2.75	12,767.4
Profile Nipple - 2.81F	3 1/2	9.30	L-80	1	1.50	12,726.2
Packer	6			1	5.59	12,773.0
Packer - 7" X 3 1/2" Nickle Plated AS-IX w/ Carbid	7	9.30	L-80	1	7.50	12,733.7

RESOLUTE
NATURAL RESOURCES

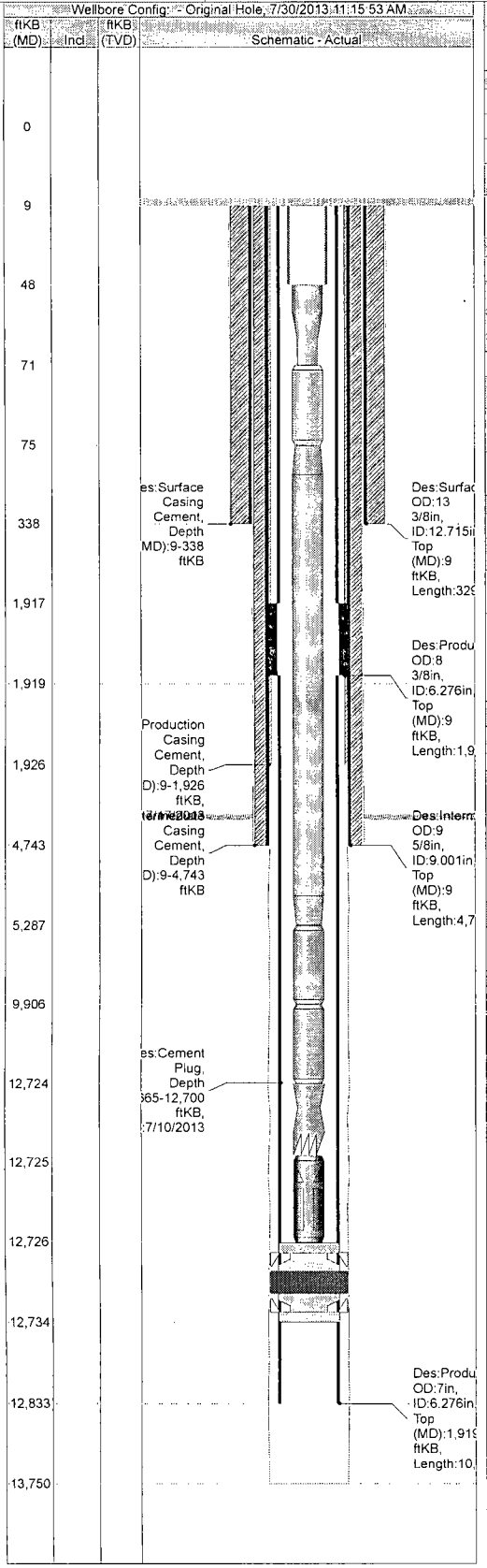
Casing, Liner and Cement report

Well Name: Shell Maxwell 27 Com SWD

API Number	Section	Township	Range	Field Name	County	State/Province
30025051640000	27	14S	37E	Denton	Lea	New Mexico

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
3,821.00		9.00		8/4/1953 00:00	

Wellbore Config: - Original Hole, 7/30/2013 11:15:53 AM



Wellbore

Wellbore Name	Profile Type	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole			

Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Surface	17 1/2	9.0	338.0
Intermediate	12 1/4	338.0	4,743.0
Production	8 3/4	4,743.0	13,750.0

Wellhead

Type: 1

Description	Make	Model	SN	Top WP (psi)

Last Mud Check

Date	Type	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	Gel (10s) (lbf/100ft²)	Gel (10m) (lbf/100ft²)	PV OR (cp)	YP OR (lbf/100ft²)

Casing

Casing Description	Run Date/Time	Set Depth (ftKB)	Wellbore
Surface		338.0	Original Hole

Centralizers:

Scratchers:

Jts	Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
10	Casing Joints	13 3/8	12.715	48.00	H-40	329.00	9.0	338.0

Cement: Surface Casing Cement

Cementing Start Date	Cementing End Date	Wellbore
		Original Hole

Evaluation Method	Cement Evaluation Results

Comment:

Cement Stages: Surface Casing Cement

Top (ftKB)	Bottom (ftKB)	Full Return?	Cmnt Rtn...	Top Plug?	Bottom Plug?
9.0	338.0				

Q (start) (bbl/min)	Q (end) (bbl/min)	Q (avg) (bbl/min)	P (final) (psi)	Plug Bump Pressure (psi)

Pipe Reciprocated?	Stroke (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)

Depth tagged (ftKB)	Tag Method	Plug Depth (ftKB)	Drill Out Diameter (in)	Drill Out Date/Time

Cement Fluids: Surface Casing Cement

Fluid Type	Fluid Description	Amount (s...	Class	Volume Pumped (bbl)
		250		

Estimated Top (ftKB)	Estimated Bottom (ftKB)	Yield (ft³/sack)	Mix H20 Ratio (gal/sack)	Free Water (%)

Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hrs)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

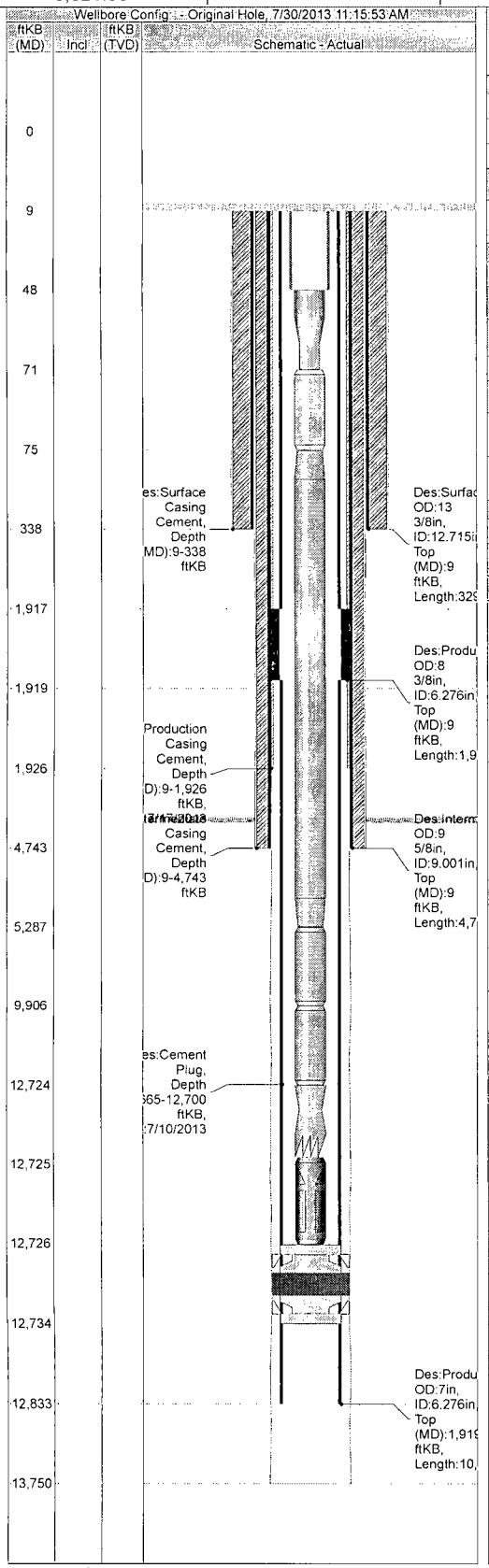
RESOLUTE
NATURAL RESOURCES

Casing, Liner and Cement report

Well Name: Shell Maxwell 27 G1 SWD

API Number	Section	Township	Range	Field Name	County	State/Province
30025051640000	27	14S	37E	Denton	Lea	New Mexico

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
3,821.00		9.00		8/4/1953 00:00	



Wellbore

Wellbore Name	Profile Type	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole			

Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Surface	17 1/2	9.0	338.0
Intermediate	12 1/4	338.0	4,743.0
Production	8 3/4	4,743.0	13,750.0

Wellhead

Type: 1

Description	Make	Model	SN	Top WP (psi)

Last Mud Check

Date	Type	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	Gel (10s) (lbf/100ft²)	Gel (10m) (lbf/100ft²)	PV OR (cp)	YP OR (lbf/100ft²)

Casing

Casing Description	Run Date/Time	Set Depth (ftKB)	Wellbore
Production2	7/16/2013 11:30	1,918.5	Original Hole

Centralizers:

Scratchers:

Jts	Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
44	Casing Joints	7	6.276	26.00	L-80	1,908.22	9.0	1,917.2
1	Casing Patch	8 3/8	7.000		L-80	1.28	1,917.2	1,918.5

Cement: Production Casing Cement

Cementing Start Date	Cementing End Date	Wellbore
7/17/2013	7/17/2013	Original Hole

Evaluation Method:

Cement Evaluation Results:
7/9/2013 RIH with radial cement bond / gamma ray / CCL, tag top of CIBP at 12695', run cement bond log up to 1910'.
Bridge at 2290'
Top of cement at 2520'

Comment:
7/9/2013 RIH with radial cement bond / gamma ray / CCL, tag top of CIBP at 12695', run cement bond log up to 1910'.
Bridge at 2290'
Top of cement at 2520'

Cement Stages: Production Casing Cement

Top (ftKB)	Bottom (ftKB)	Full Return?	Cmnt Rtrn...	Top Plug?	Bottom Plug?
9.0	1,926.0	Yes	13.0		

Q (start) (bbl/min)	Q (end) (bbl/min)	Q (avg) (bbl/min)	P (final) (psi)	Plug Bump Pressure (psi)

Pipe Reciprocated?	Stroke (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)

Depth tagged (ftKB)	Tag Method	Plug Depth (ftKB)	Drill Out Diameter (in)	Drill Out Date/Time

Cement Fluids: Production Casing Cement

Fluid Type	Fluid Description	Amount (s...	Class	Volume Pumped (bbl)
Tail		325	C	76.0

Estimated Top (ftKB)	Estimated Bottom (ftKB)	Yield (ft³/sack)	Mix H20 Ratio (gal/sack)	Free Water (%)
9.0	1,926.0	1.34	6.31	

Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hrs)	1st Compressive Strength (psi)
14.80			

Cement Fluid Additives

Add	Type	Conc
CaCl2		
Fluid Loss Control		
Friction Reducer		
Powdered Defoamer		

RESOLUTE
NATURAL RESOURCES

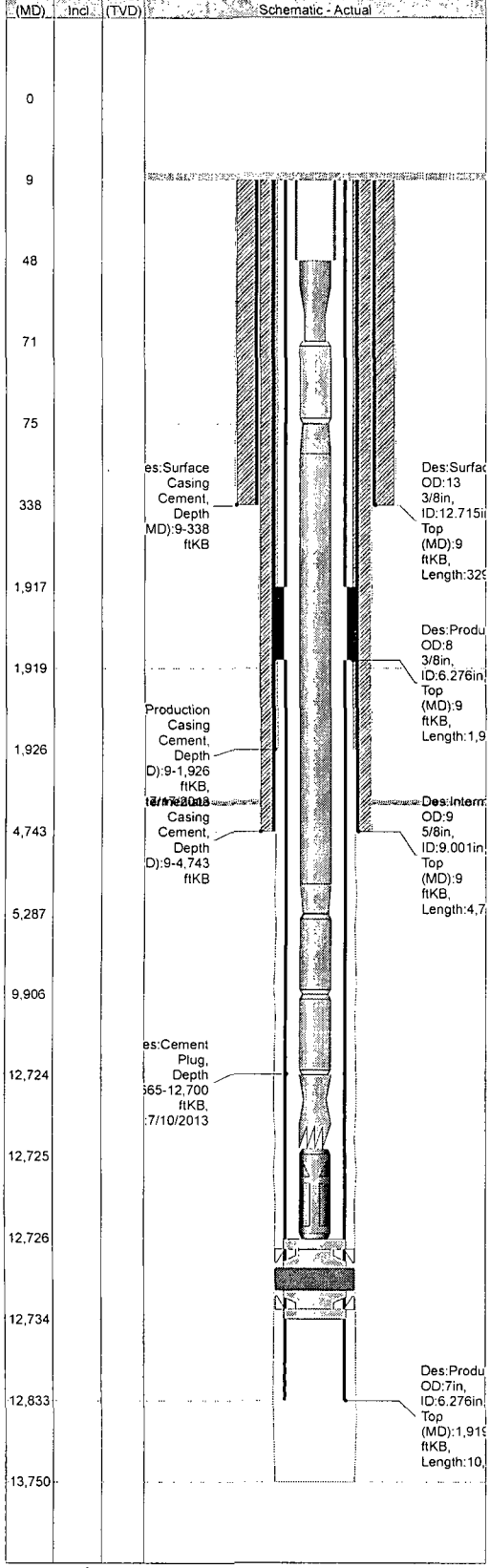
Casing, Liner and Cement report

Well Name: Shell Maxwell 27 01 S 37 E D

API Number	Section	Township	Range	Field Name	County	State/Province
30025051640000	27	14S	37E	Denton	Lea	New Mexico

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
3,821.00		9.00		8/4/1953 00:00	

Wellbore Config: - Original Hole, 7/30/2013 11:15:53 AM



Cement Stages: Production Casing Cement

Top (ftKB)	Bottom (ftKB)	Full Return?	Cmnt Rtrn...	Top Plug?	Bottom Plug?

Q (start) (bbl/min)	Q (end) (bbl/min)	Q (avg) (bbl/min)	P (final) (psi)	Plug Bump Pressure (psi)
	4			

Pipe Reciprocated?	Stroke (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)

Depth tagged (ftKB)	Tag Method	Plug Depth (ftKB)	Drill Out Diameter (in)	Drill Out Date/Time
1,771.0	Drill Bit		6 1/8	7/18/2013

Cement Fluids: Production Casing Cement

Fluid Type	Fluid Description	Amount (s...	Class	Volume Pumped (bbl)

Estimated Top (ftKB)	Estimated Bottom (ftKB)	Yield (ft³/sack)	Mix H20 Ratio (gal/sack)	Free Water (%)

Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hrs)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

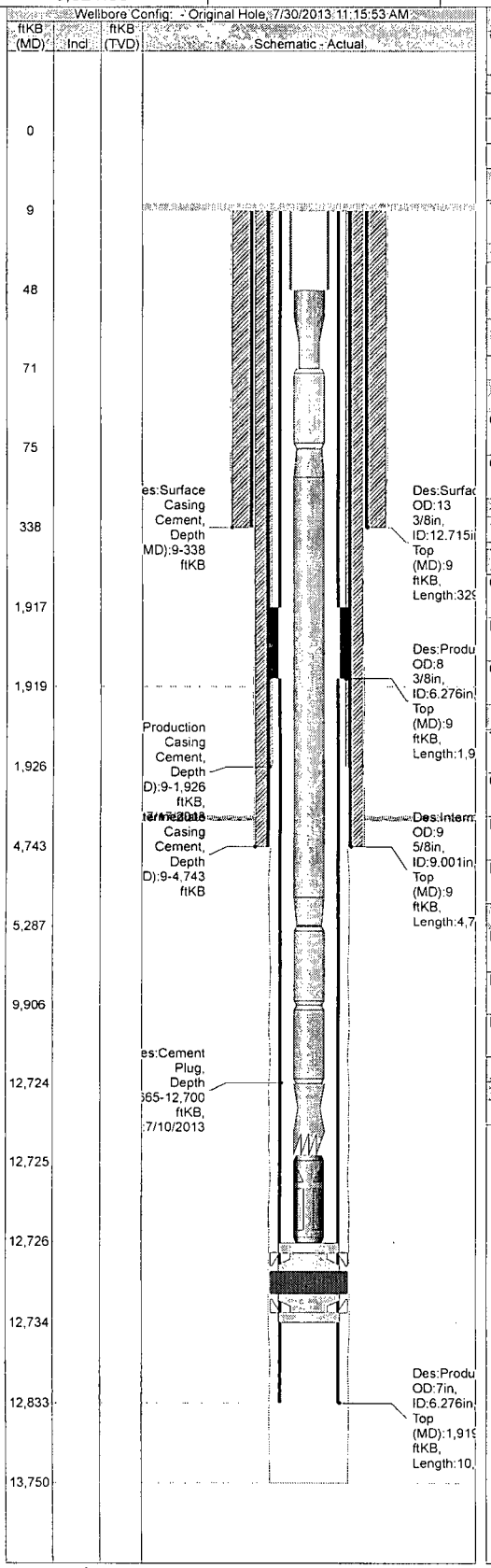
RESOLUTE
NATURAL RESOURCES

Casing, Liner and Cement report

Well Name: Shell Maxwell 27 001 SWD

API Number	Section	Township	Range	Field Name	County	State/Province
30025051640000	27	14S	37E	Denton	Lea	New Mexico

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
3,821.00		9.00		8/4/1953 00:00	



Wellbore

Wellbore Name	Profile Type	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole			

Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Surface	17 1/2	9.0	338.0
Intermediate	12 1/4	338.0	4,743.0
Production	8 3/4	4,743.0	13,750.0

Wellhead

Type: 1

Description	Make	Model	SN	Top WP (psi)

Last Mud Check

Date	Type	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	Gel (10s) (lbf/100ft²)	Gel (10m) (lbf/100ft²)	PV OR (cp)	YP OR (lbf/100ft²)

Casing

Casing Description	Run Date/Time	Set Depth (ftKB)	Wellbore
Intermediate		4,743.0	Original Hole

Centralizers:

Scratchers:

Jts	Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
1...	Casing Joints	9 5/8	9.001	32.30	H-40	4,734.00	9.0	4,743.0

Cement: Intermediate Casing Cement

Cementing Start Date	Cementing End Date	Wellbore
		Original Hole

Evaluation Method	Cement Evaluation Results

Comment:

Cement Stages: Intermediate Casing Cement

Top (ftKB)	Bottom (ftKB)	Full Return?	Cmnt Rtn...	Top Plug?	Bottom Plug?
9.0	4,743.0				

Q (start) (bbl/min)	Q (end) (bbl/min)	Q (avg) (bbl/min)	P (final) (psi)	Plug Bump Pressure (psi)

Pipe Reciprocated?	Stroke (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)

Depth tagged (ftKB)	Tag Method	Plug Depth (ftKB)	Drill Out Diameter (in)	Drill Out Date/Time

Cement Fluids: Intermediate Casing Cement

Fluid Type	Fluid Description	Amount (s...	Class	Volume Pumped (bbl)
		2,500		

Estimated Top (ftKB)	Estimated Bottom (ftKB)	Yield (ft³/sack)	Mix H20 Ratio (gal/sack)	Free Water (%)

Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hrs)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

RESOLUTE
NATURAL RESOURCES

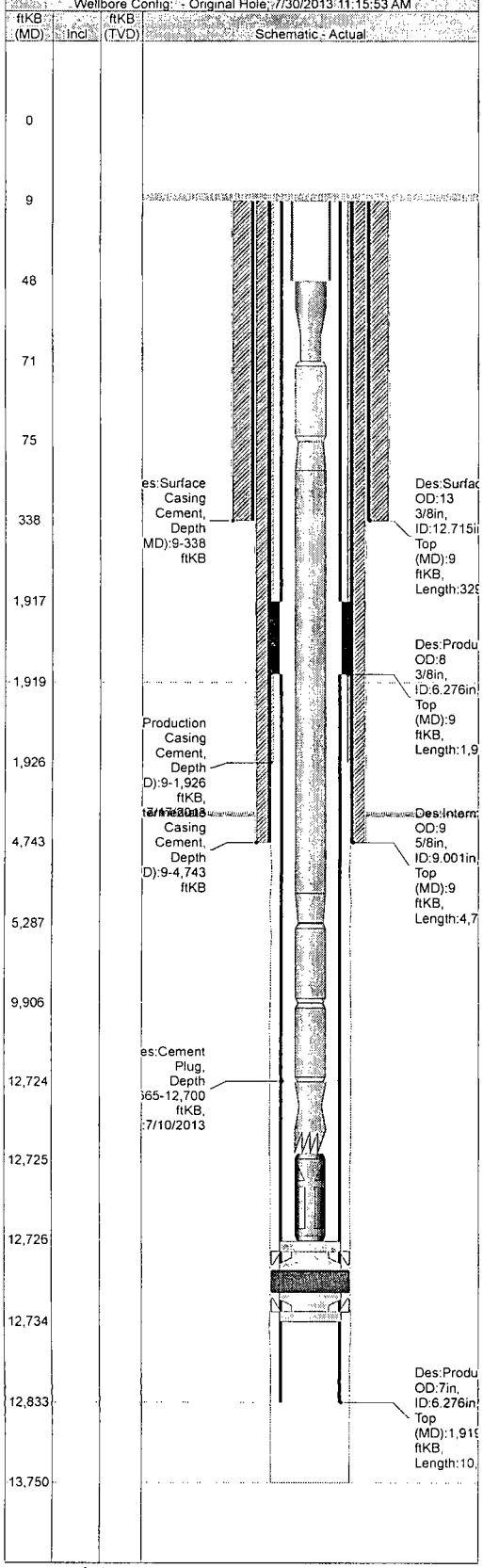
Casing, Liner and Cement report

Well Name: Shell Maxwell Proposed SWD

API Number	Section	Township	Range	Field Name	County	State/Province
30025051640000	27	14S	37E	Denton	Lea	New Mexico

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
3,821.00		9.00		8/4/1953 00:00	

Wellbore Config: - Original Hole, 7/30/2013 11:15:53 AM



Wellbore

Wellbore Name	Profile Type	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole			

Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Surface	17 1/2	9.0	338.0
Intermediate	12 1/4	338.0	4,743.0
Production	8 3/4	4,743.0	13,750.0

Wellhead

Type: 1

Description	Make	Model	SN	Top WP (psi)

Last Mud Check

Date	Type	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	Gel (10s) (lbf/100ft²)	Gel (10m) (lbf/100ft²)	PV OR (cp)	YP OR (lbf/100ft²)

Casing

Casing Description	Run Date/Time	Set Depth (ftKB)	Wellbore
Production		12,833.0	Original Hole

Centralizers:

Scratchers:

Jts	Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
4...	Casing Joints	7	6.276	26.00		12,824.00	9.0	12,833.0

Cement: Cement Plug

Cementing Start Date	Cementing End Date	Wellbore
7/10/2013	7/10/2013	Original Hole

Evaluation Method:

Cement Evaluation Results:

Comment:

Cement Stages: Cement Plug

Top (ftKB)	Bottom (ftKB)	Full Return?	Cmnt Rtrn...	Top Plug?	Bottom Plug?
12,665.0	12,700.0				

Q (start) (bbl/min)	Q (end) (bbl/min)	Q (avg) (bbl/min)	P (final) (psi)	Plug Bump Pressure (psi)

Pipe Reciprocated?	Stroke (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)

Depth tagged (ftKB)	Tag Method	Plug Depth (ftKB)	Drill Out Diameter (in)	Drill Out Date/Time
		12,700.0	6 1/8	7/19/2013

Cement Fluids: Cement Plug

Fluid Type	Fluid Description	Amount (s...	Class	Volume Pumped (bbl)
		5	sakcrete	

Estimated Top (ftKB)	Estimated Bottom (ftKB)	Yield (ft³/sack)	Mix H20 Ratio (gal/sack)	Free Water (%)

Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hrs)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

RESOLUTE
NATURAL RESOURCES

Daily Reports

Well Name: Shell Maxwell 27 01 SWD

API Number	Section	Township	Range	Field Name	County	State/Province
30025051640000	27	14S	37E	Denton	Lea	New Mexico

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
3,821.00		9.00		8/4/1953 00:00	

Job Category	Primary Job Type	Secondary Job Type
Completion/Workover	Casing Repair	

Start Date	End Date
5/20/2013	7/26/2013

Objective
Restore casing integrity.

Contractor	Rig Number	Rig Type	Rig Start Date	Rig Release Date
Atlas Well Service	4		5/20/2013	7/26/2013

Report Number	Start Date	End Date	Summary
1	5/20/2013	5/20/2013	Aol: Ru Precision Psi Data, Rih with 2.81 X Plug, Hung Up at 1591', Poh w/ Lots of Drag, RD PPD, Ru Atlas Well Service, Ru Crain Acidizing, Pump 5000 Gallons 15% HCL Double Inhibited, Max Iron Control at 2 Bpm, Flush w/ 260 Bbls FW at 2 Bpm, Set in Catwalk and Pipe Racks, Secure Well, SDFN
2	5/21/2013	5/21/2013	Aol: Ru Precision Psi Data, Rih w/ 2.86" Gauge Ring, Tag and Work Thru 1891', Resume Tih w/o Tagging to 12728' w/o KB Correction, Poh with Gauge Ring, Rih with 2.81 X Blanking Plug, Set in Profile Nipple at 12730', Poh w/ Slickline, Load 4 1/2" Casing w/ 82 Bbls FW, Psi to 680 Psi, Monitor w/ Chart Recorder for 30 Minutes w/ No Leak Off, Bleed Psi, Ru on 4 1/2" X 7" Casing, Load w/ 1 Bbl. FW, Psi to 600 Psi, Bled to 380 Psi in 10 Minutes, Rih with Equalizing Prong and Equalize Otis X, Poh w/ Equalizing Tool, Rd PPD, Nd Flowline, Break Collar to Remove 11" 3000 Protective Flange, Found 4 Threads Gone From Buttress Threads, Secure Well, SDFN
3	5/22/2013	5/22/2013	Spear Casing with 3.947 Grapple, Pu Off Slips, 4 1/2" Casing weighing 50,000, Pull Up to 150,000, Casing Jumped, Lost 80,000, Set All Weight on Casing Would Not Come All The Way Back Down, Calculated Stuck Point at 2225', Ru Rotary Wireline, Rih with Free Point Tools, Tag at 1887', 0% Movement at 2000', 0% Movement at 1700', 90% Free at 1695', 100% Free at 1690', Collar at 1671' and 1712', Poh with Free Point Tools, Rih w/ 1 9/16" Tbg Punch, Collar at 1929', Shoot 4 Holes at 1950', Poh, Ru on 4 1/2" Casing, Pump 12 Bbls, Broke Circulation Out 7" X 9 5/8" Casing 3 Bpm at 500 Psi, Close 7" X 9 5/8" Valve, Psi Up to 700 Psi, Bleed Psi, Ru on 4 1/2" X 7", Psi to 700 Psi w/ No Leak Off, Rih with Chemical Cutter, Locate Collar at 1671', Cut Casing at 1678', Poh, RD Rotary Wireline, Ru Casing Crew and Lay Down Machine, Start Poh Dragging 60 Pts. Over for 1st 20' then gradually started getting better For the next 70' Till Pulling Free, Poh with 42 Jts + Cut Off Jt, All 4 ½ had Metal Loss on Pin Ends, 30% Of Box Ends Had Metal Loss on Pins, Body of Pipe Had Minimal Corrosion, RD Casing Crew and Lay Down Machine, Secure Well, SDFN
4	5/23/2013	5/23/2013	Unload and Rack 100 Jts 3 1/2" 12.95# P-110 PH-6 Tbg, Rih with 6" O.D. X 5 3/8" I.D. Shoe, Dressed 6 1/8" SOD, 5 3/8" SID, w/ Cutrite on Bottom, 3) Jts 6" X 5 3/8" X 93' Washpipe, Top Bushing 37 Jts 3 1/2 PH-6 Tbg, Tag at 1220', pick Up Power Swivel, Nu Stripper Head, Break Reverse Circ, Mill Thru Scale and Iron Sulfide Down to 1796', Set Top Bushing Down on Fish, Reverse Hole Clean, Lay Down Power Swivel, Nd Stripper Head, Poh with Tbg and Wash Pipe, Secure Well, SDFN
5	5/24/2013	5/24/2013	Rih w/ 5 3/4" Overshot w/ 4 1/2" Grapple and Packoff, Top Bushing, x-over, 56 Jts 3 1/2" Tbg, Latch Up on Fish at 1703', Pick w/ an Additional 2000 #, Pull Out Of Hole w/ 5 Jts 4 1/2" Casing -187.09', Casing Has Lots of Holes and Was Already Parted, Top of Fish at 1891', Rih w/ Shoe, 3) Jts Washpipe, Top Bushing, 56 Jts 3 1/2" Tbg, Tag at 1796, Pu Power Swivel, Nu Stripper Head, Break Reverse Circulation, Mill Scale Down to 1982', Reverse Hole Clean, Poh with 32 Jts 3 1/2" Tbg to 1020', Secure Well, SDFHWE
6	5/28/2013	5/28/2013	Latch Up on Fish at 1931', Calculated Free at 10,200', Ru Rotary Wireline, Rih with Split Shot, Locate Collars at 3515' and 3473', Shoot Split Shot in Collar at 3473', Poh w/ Wireline, Lost 2' Cutter in Hole, Poh w/ 60 Jts 3 1/2" Tubing. Secure Well. SDFN.
7	5/29/2013	5/29/2013	Mill Scale Down to top of Fish at 3471' Circulate Clean, Secure well and SDFN.
8	5/30/2013	5/30/2013	Milling from 3471' to 3475, circulating hole clean, metal shavings, Latch onto fish @3475. No movement.
9	5/31/2013	5/31/2013	RIHWireline tag at 11,110. Could not make any hole. RD for Coil Tbg Unit. SDFWE
10	6/3/2013	6/3/2013	RU Coil Tubing Unit, laid down pulling unit derrick and RU Cudd. Secure Well and SDFN.
11	6/4/2013	6/4/2013	Coil Tubing Work Recoverd small amount of metal cuttings, tagged at 11082' ,not making any hole. RD Cudd Secure Well. SDFN.
12	6/5/2013	6/5/2013	RU Pullling Unit and Wireline, RIH w/ free point tag @11110' 4 1/2 casing free @ 11110'. RU Well Foam Air Unit on tbg poumped 310 bbs fresh water, soap and diesel.
13	6/6/2013	6/6/2013	MIRU Wireline, locate and shoot collar @11273'. Tools hung up at in overshot @3475. POH and lay down tubing and 191 joints of 4 1/2" casing.(mostly in good condition. RD Secure Well SDFN.
14	6/7/2013	6/7/2013	Rih w/ 3 3/4" Overshot w/ 1 5/8" Grapple, 50 Jts 2 3/8" Tbg, x-over, 10 Jts 2 7/8" Tbg, Tag at 1910', Rotate and Work Past Parted Casing, Continue in Hole to 9716', Secure Well, SDFWE
15	6/10/2013	6/10/2013	Continue in Hole and working thru 4 1/2" Casing. Circulate and Wash thru bridge doln to 11411'. Reverse hole clean continue in hole tag w/ 361 jts @ 11695'. Secure Well SDFN.
16	6/11/2013	6/11/2013	Work Power Swivel, mill and clean hole LD Power Swivel and POH with tubing, rest of split shot, shoe packed solid with Iron Sulfide. Continue in hole with 348 jts of tubing and tagged top of 4 1/2" casing @ 11253'. Conitnue to 388 jts. Secure Well. SDFN.
17	6/12/2013	6/12/2013	RU Power Swivel, reverse hole clea, POH lay down 50 jts. tubing, RIH w 6 1/8" Concave Mill, xovers, and 59 jts. of tubing Tag at 1910'. Work past parted casing, continue in hole to 222 joints. Secure well. SDFN.

RESOLUTE
NATURAL RESOURCES

Daily Reports

Well Name: Shell Maxwell 27 01 SWD

API Number	Section	Township	Range	Field Name	County	State/Province
30025051640000	27	14S	37E	Denton	Lea	New Mexico

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
3,821.00		9.00		8/4/1953 00:00	

Report Number	Start Date	End Date	Summary
18	6/13/2013	6/13/2013	PU Power Swivel, broke circulation , mill 3' to 11256', circulate hole clean, tig with tubing latch onto fish at 11256', worked tubing no movment in Packer. Secure Well SDFN.
19	6/14/2013	6/14/2013	RU Wireline free point @12625' 60% free, 12608' 90% free, 12575' 100% free. POH attempt to release overshot second tr released overshot, POH with wireline, and 42 jts of tubing.
20	6/17/2013	6/17/2013	Resume Poh w/ Tbg, Overshot, 2 Jts 4 1/2" Casing, Ru Rotary Wireline, Rih w/ 3 5/8" Chemical Cutter, Tag and Work Past 1910', Tag Top of Fish at 11336', Work Inside 4 1/2" Casing, Locate Collar at 12600', Chemical Cut 4 1/2" Casing at 12610', Poh w/ WL, RD Rotary, Rih w/ 5 3/4" Overshot w/ 4 1/2" Grapple and Packoff, Work Past Parted 7" at 1910', Latch Up on Fish at 11336', Ru Reverse Unit on Tbg, Circulate Hole for 30 Minutes, Work Tbg Up to 115,000#, Put 10 Rds Right Hand Torque in Tbg and Work w/ No Success, Increase Rate on Tbg to Obtain 1000 Psi on Tbg and Continue to Work Tbg, Could Not Part Cut, Circulate Hole Clean, Secure Well, SDFN
21	6/18/2013	6/18/2013	Ru Rotary Wireline, Rih w/ Free Point Tools to Collar at 12600', Collar 100% Free, Check to Make Sure Can Get Torque Down to Collar, Poh w/ Free Point Tools, Rih w/ 300 Gr String Shot, Obtained Backoff at 12600', Poh w/ Wireline, RD Rotary Wireline, Work Pipe Free, Poh w/ 11 Jts 2 7/8" Tbg, Pulling Unit Had Electrical System Malfunction, Secure Well SDFN
22	6/19/2013	6/19/2013	Replace Wiring Harness to Transmission, Poh w/ 336 Jts 2 7/8" Tbg, Secure Well, SDFN
23	6/20/2013	6/20/2013	Ru Casing Crew, Poh w/ 2 Jts 2 7/8" Tbg, Overshot, 31 Jts 4 1/2" Casing - 1271.40', Recovered 4 1/2" Casing Collar, Rd Casing Crew, Rih w/ 6" X 5 3/8" Shoe, Dressed 6 1/8" S.O.D., 5 3/8" S.I.D., Cutrite on Bottom, 4) Jts 6" Washpipe, Top Bushing, x-over, 55) Jts 2 7/8" Tbg, Tag at 1910', Rotate and Rolloff, Tag at 1914', Could Not Work Past 1914', Poh w/ Tbg, Washpipe, and Shoe, Send Shoe to Be Rebuilt w/ Cutlip on Bottom, Rih w/ 6" X 5 3/8" Shoe w/ Cutlip Dressed, 6 1/8" S.O.D., 5 3/8" S.I.D., w/ Cutrite on Bottom, 4) Jts 6" Washpipe, Top Bushing, x-over, 55 Jts 2 7/8" Tbg, Tag at 1910, Rotate and Work Through Parted Pipe, Continue in Hole to 112 Jts in, Secure Well, SDFN
24	6/21/2013	6/21/2013	Continue in Hole w/ Wash Pipe to 383 Jts In at 12574', Pu Power Swivel, Nu Stripper Head, Break Reverse Circ, Tag at 12605', Mill to 12673' in 5 Hours, Reverse Hole Clean, Returns were Iron Sulfide and Scale, Nd Power Swivel, Poh w/ 128 Jts Tbg, Secure Well, SDFN
25	6/24/2013	6/24/2013	Resume Poh w/ Tbg, Washpipe and Shoe, Rih w/ New 6" x 5 3/8" I.D. Window Shoe, Dressed 6" S.O.D., 5 1/4" R.I.D., Cutrite on Bottom, 4) Jts 6" Washpipe, 55 Jts 2 7/8" Tbg, Tag at 1910', Work For 1.5 Hrs to Work Through Parted 7" Casing, Continue in Hole to 386 Jts in, Pu Power Swivel, Nu Stripper Head, Break Reverse Circ, Tag at 12672', Mill to 12681' in 3 Hours, Returns Were Iron Sulfide and Steel Shavings, Reverse Hole Clean, LD Power Swivel, Poh w/ 5 Jts Tbg, Secure Well, SDFN
26	6/25/2013	6/25/2013	Mill
27	6/26/2013	6/26/2013	Mill to Top of Packer
28	6/27/2013	6/27/2013	Latch on to fish.
29	6/28/2013	6/28/2013	Attempt to Pull Packer
30	7/1/2013	7/1/2013	Split Shot Collar at 11997'
31	7/2/2013	7/2/2013	Pulled Packer
32	7/3/2013	7/3/2013	Pulled 1910' of 7" Casing
33	7/8/2013	7/8/2013	Run and set CIBP
34	7/9/2013	7/9/2013	Run Casing Inspection and Cement Bond Logs
35	7/10/2013	7/10/2013	Dump bail cement and pressure test casing
36	7/11/2013	7/11/2013	Testing casing
37	7/12/2013	7/12/2013	Free point and mill off csg
38	7/15/2013	7/15/2013	Wash Over 10' of Csg, Test Integrity of Top of Casing
39	7/16/2013	7/16/2013	Tie 7" Casing Back Togther w/ Lead Seal Patch
40	7/17/2013	7/17/2013	Cement 7" casing.
41	7/18/2013	7/18/2013	Drill Cement
42	7/19/2013	7/19/2013	Wash and Mill Down to CIBP, Mill on CIBP For 1.5 Hrs
43	7/22/2013	7/22/2013	Finish Mill Over CIBP and Push Out Into Open Hole
44	7/23/2013	7/23/2013	Resume POH, start in Hole w/ Injection Packer.
45	7/24/2013	7/24/2013	Resume Tih, Set Packer
46	7/25/2013	7/25/2013	MIT Test
47	7/26/2013	7/26/2013	RDPU